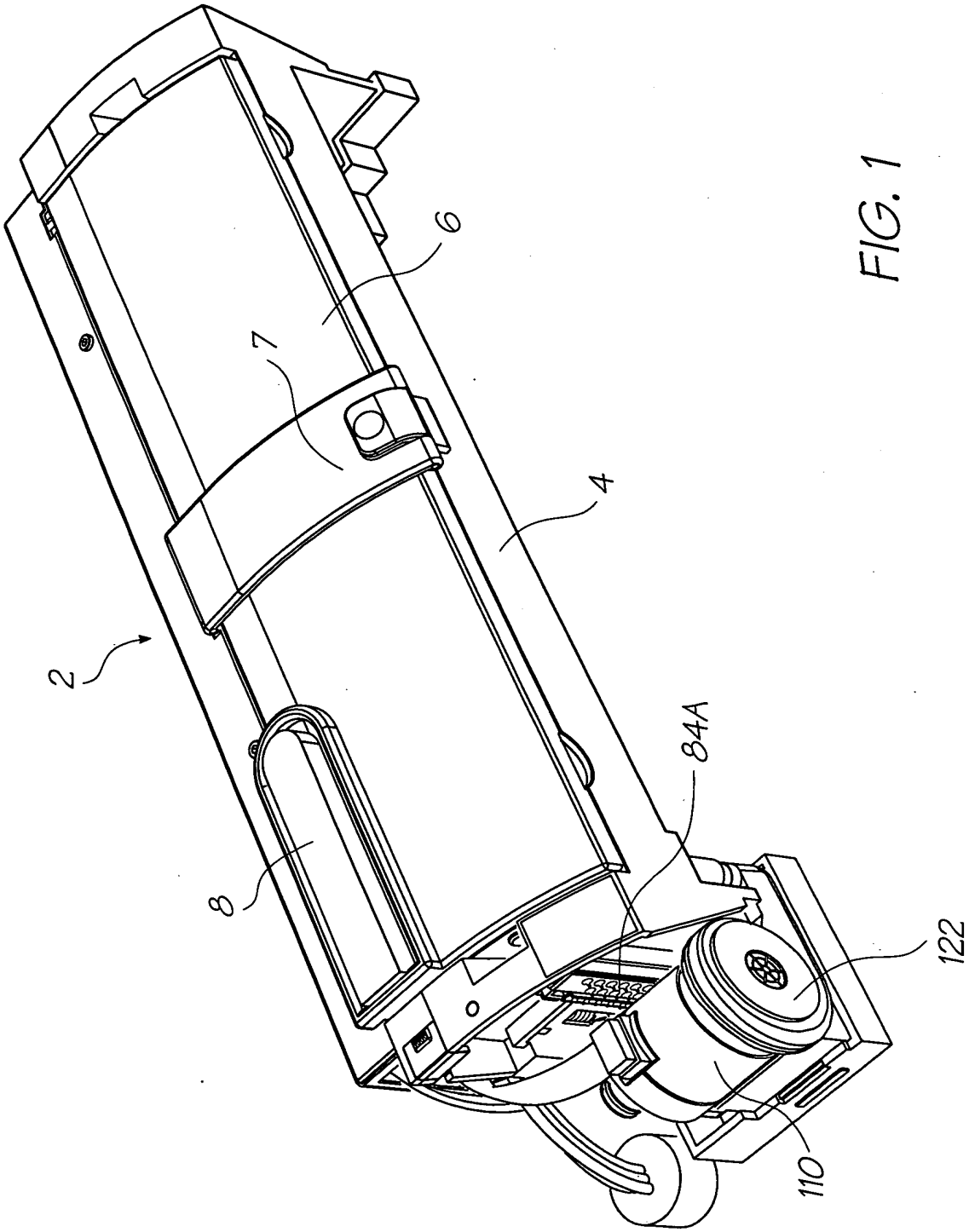



FIG. 1

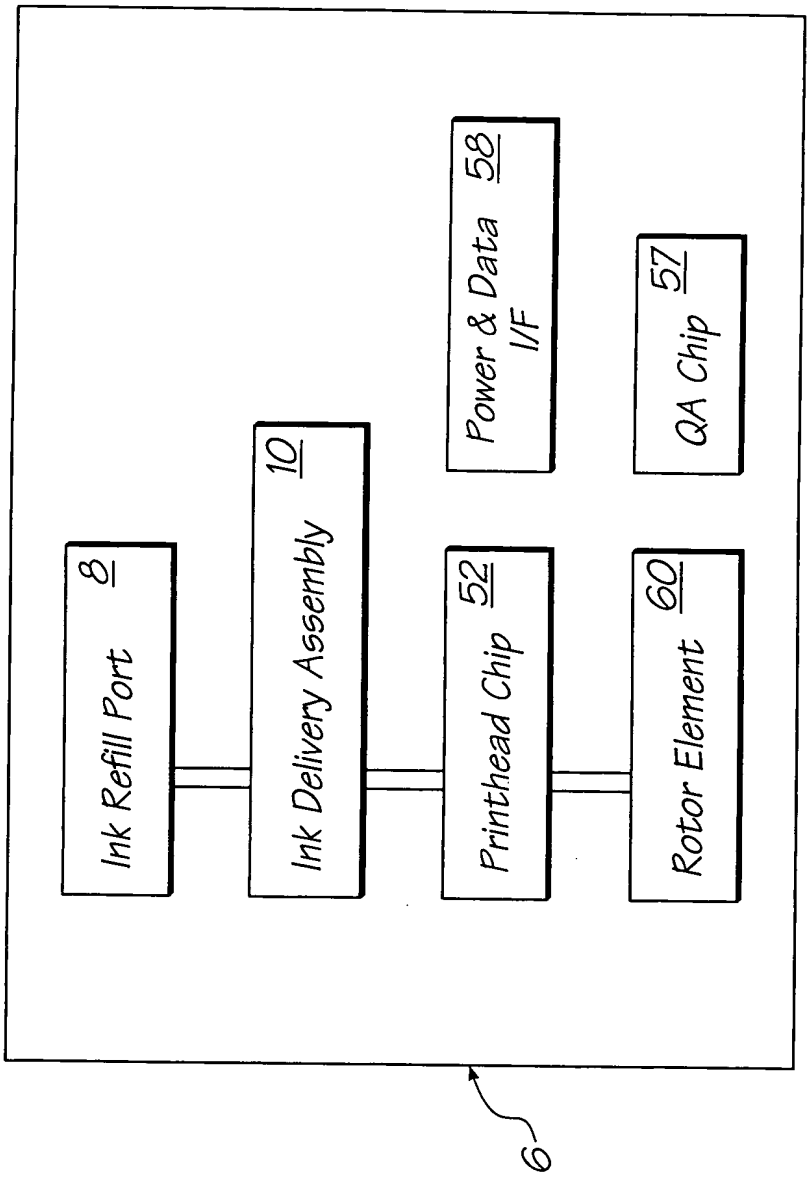

Ink Refill Port 8
Ink Delivery Assembly 10
Printhead Chip 52
Rotor Element 60
Power & Data I/F 58
QA Chip 57
6

FIG. 2

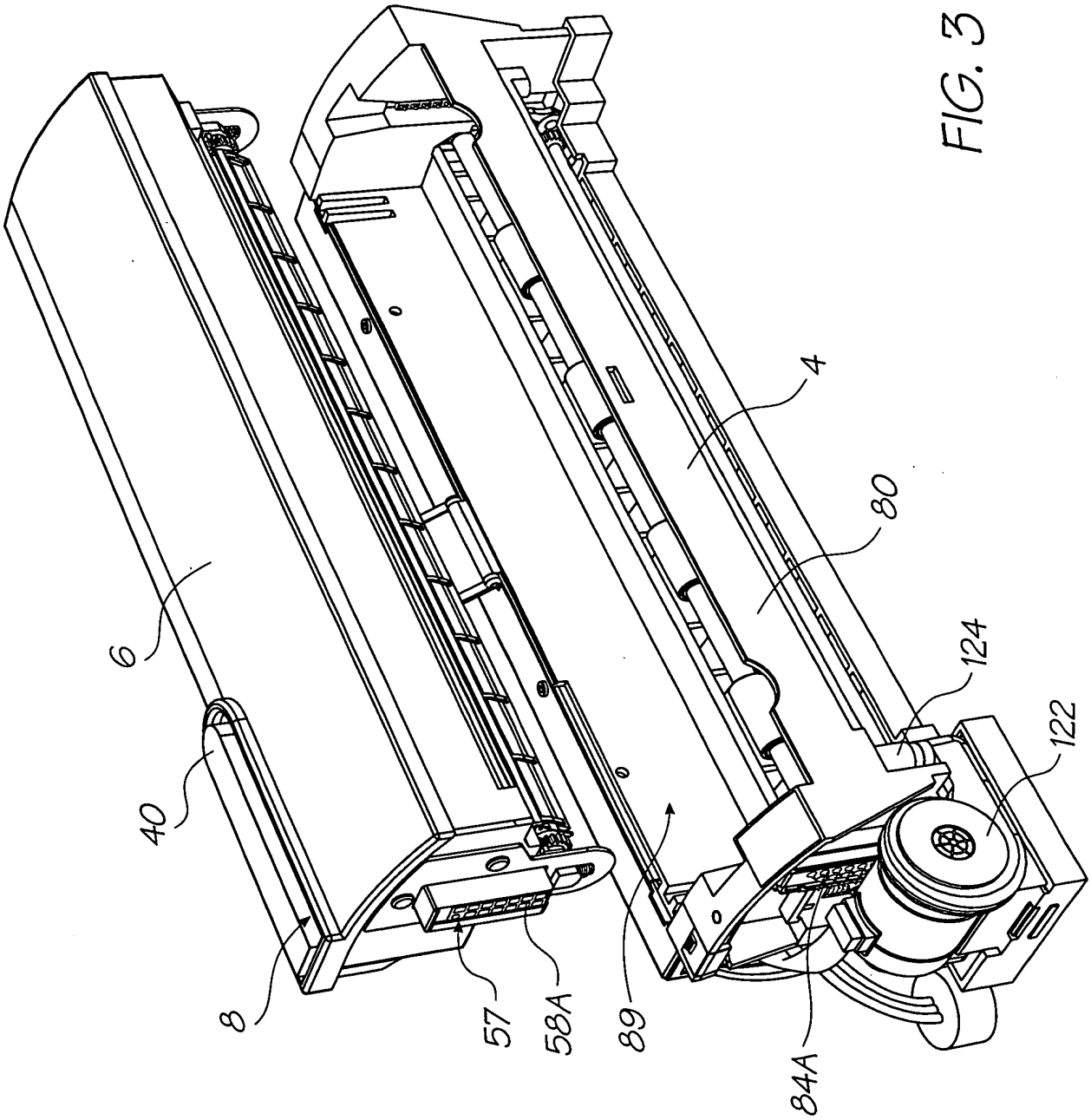



FIG. 3

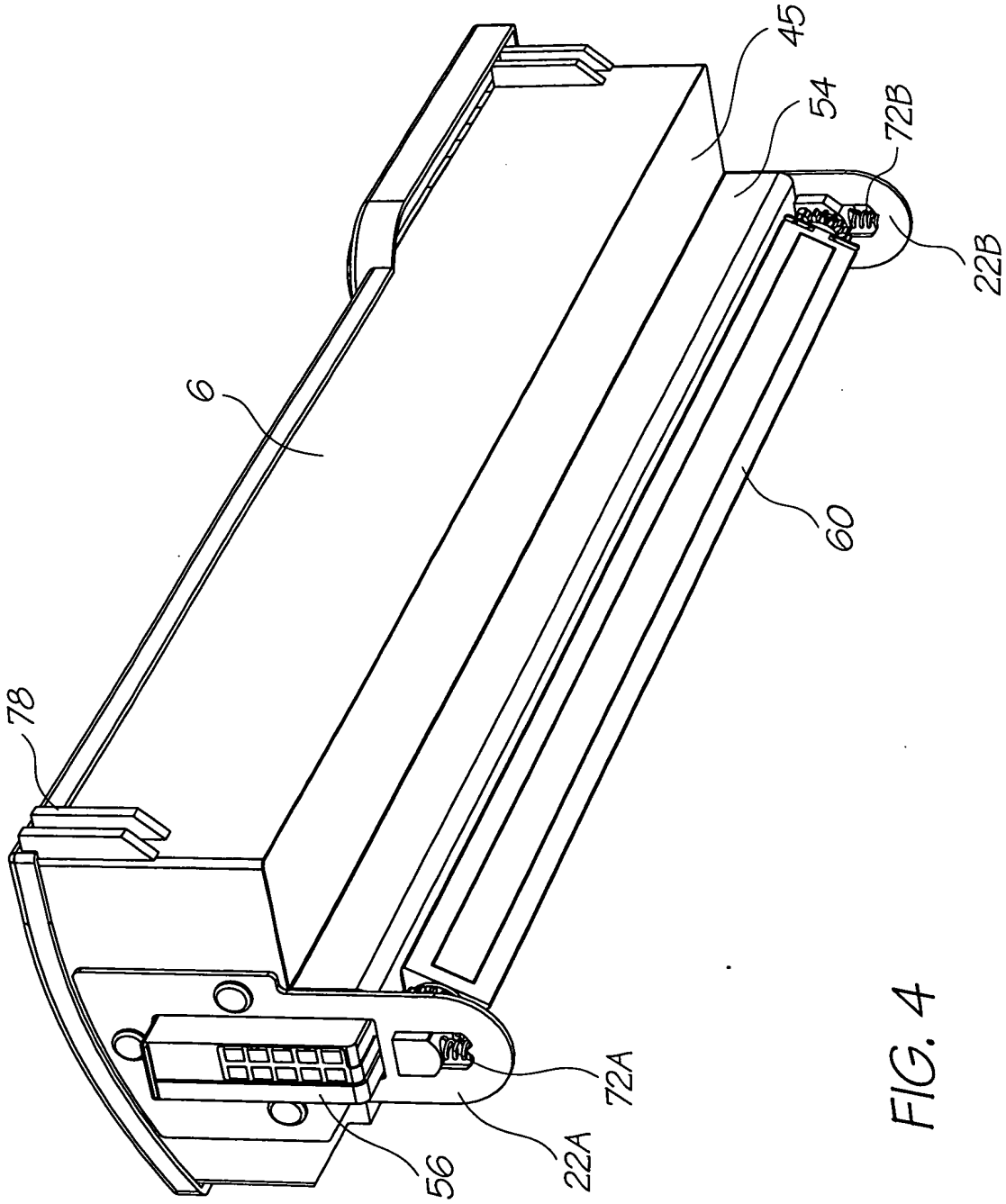



FIG. 4

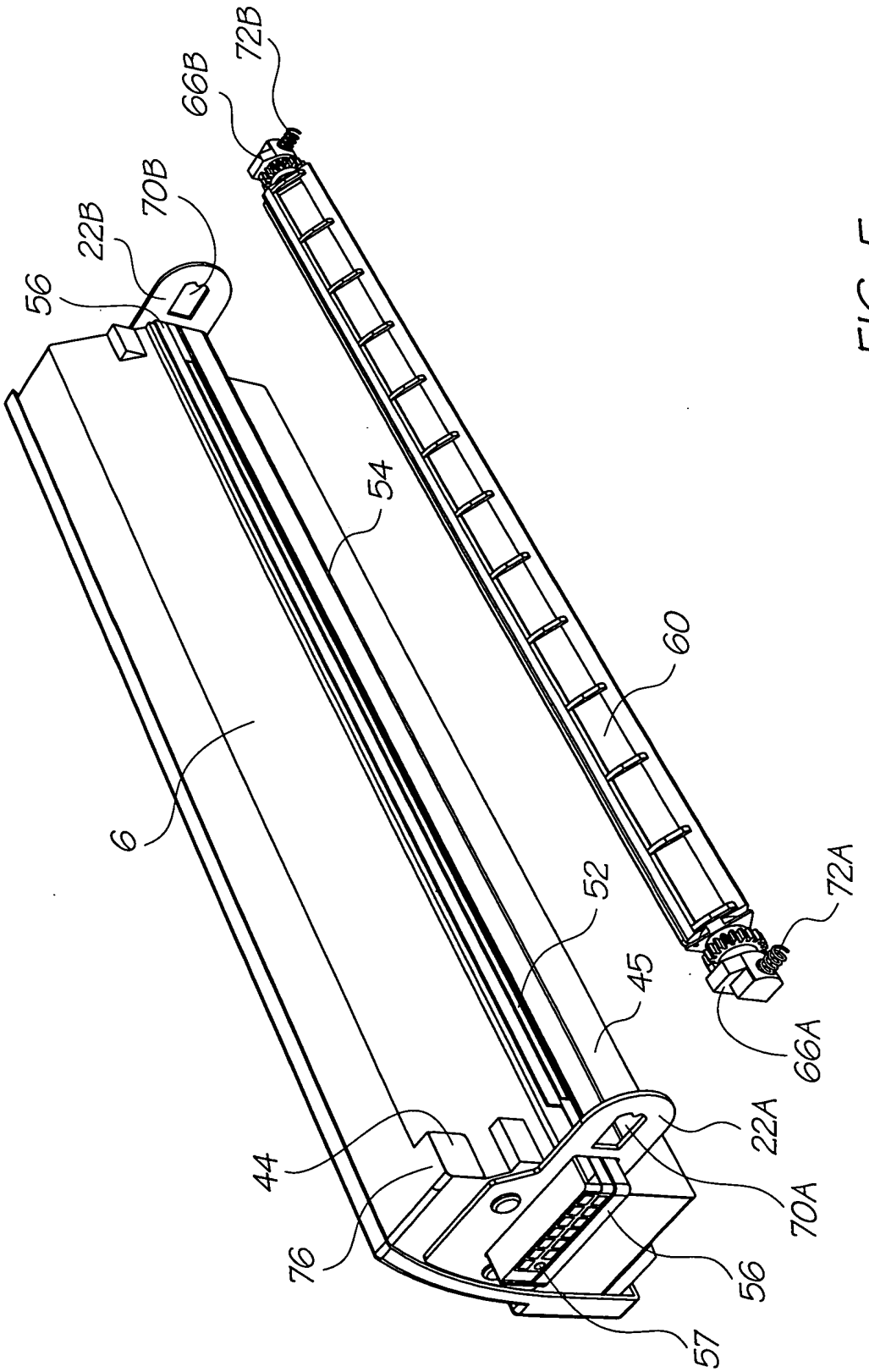



FIG. 5

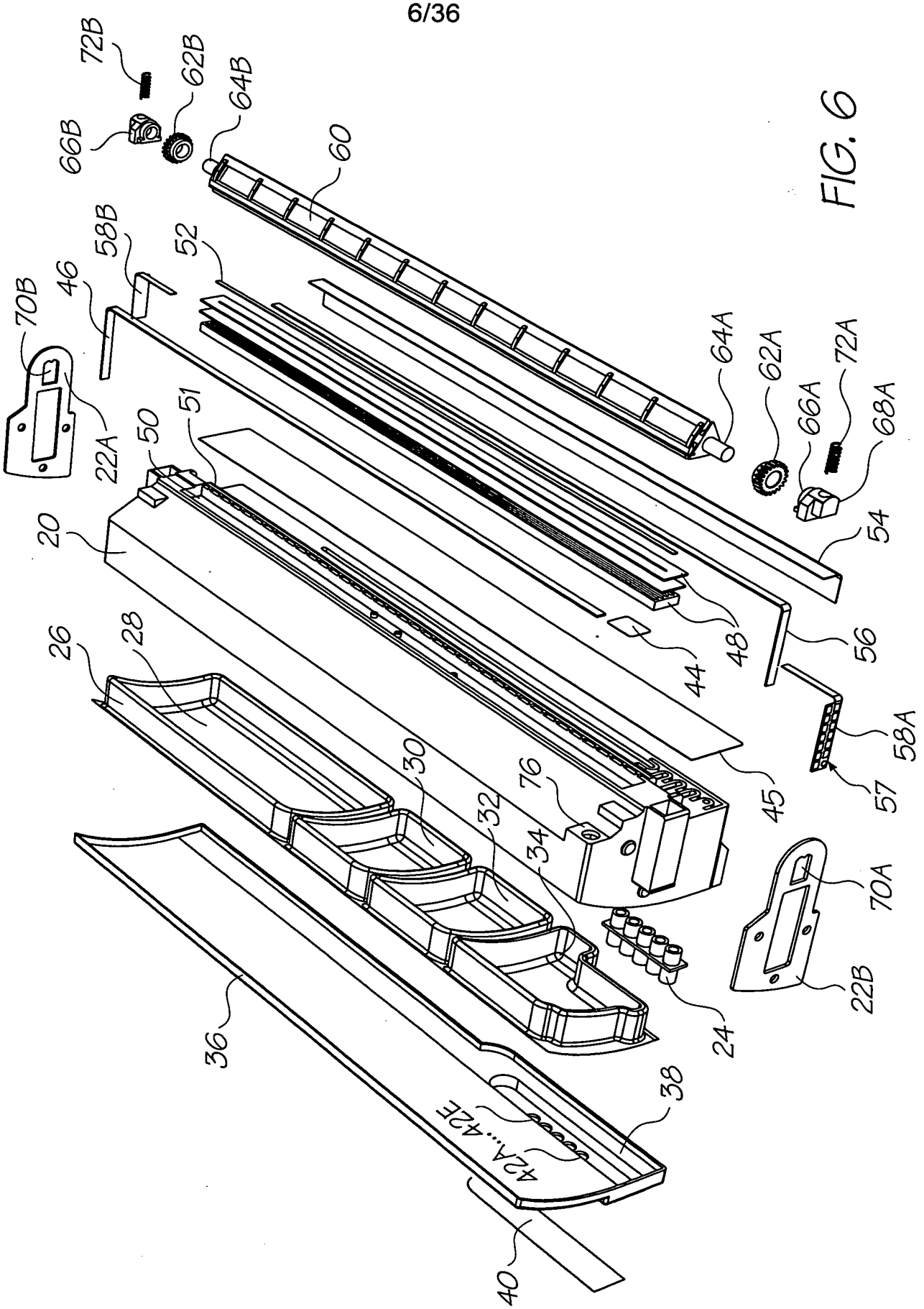

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FIG. 6

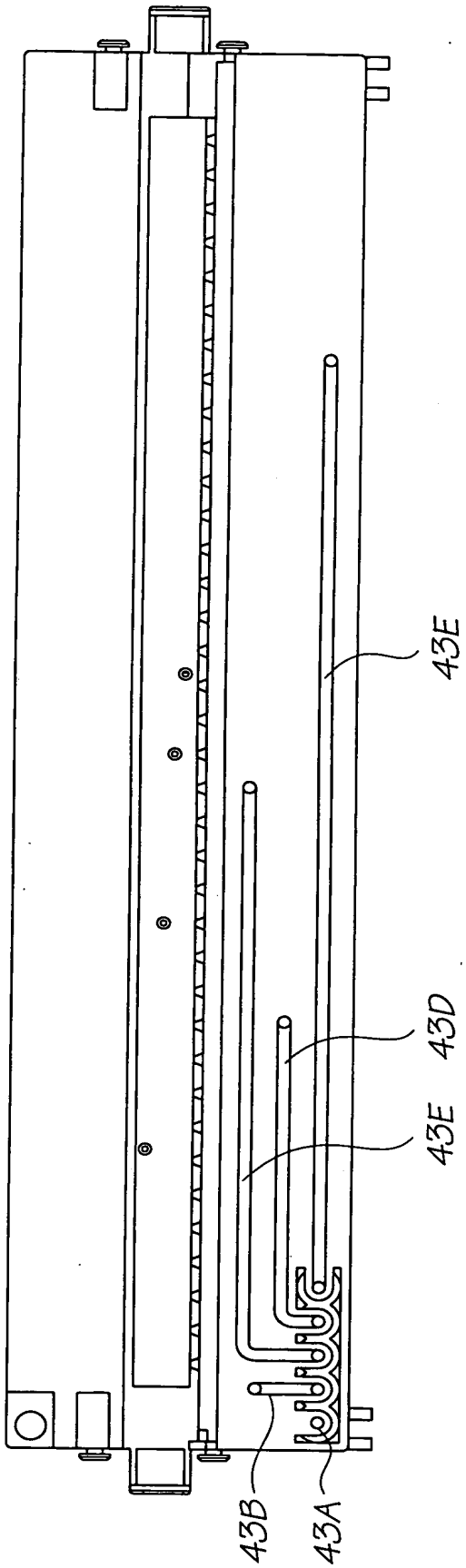



FIG. 7

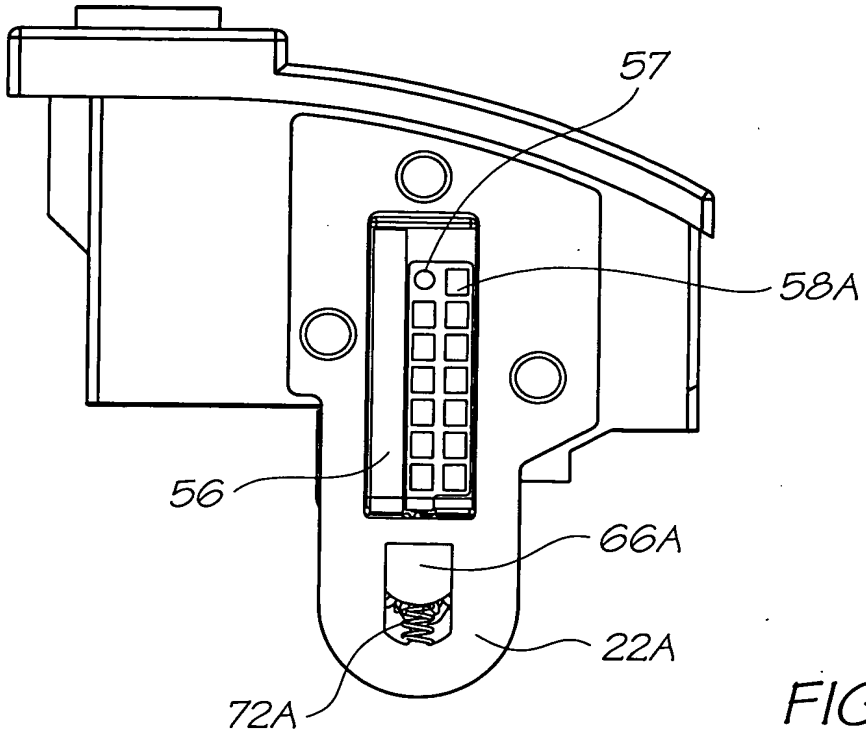



FIG. 8

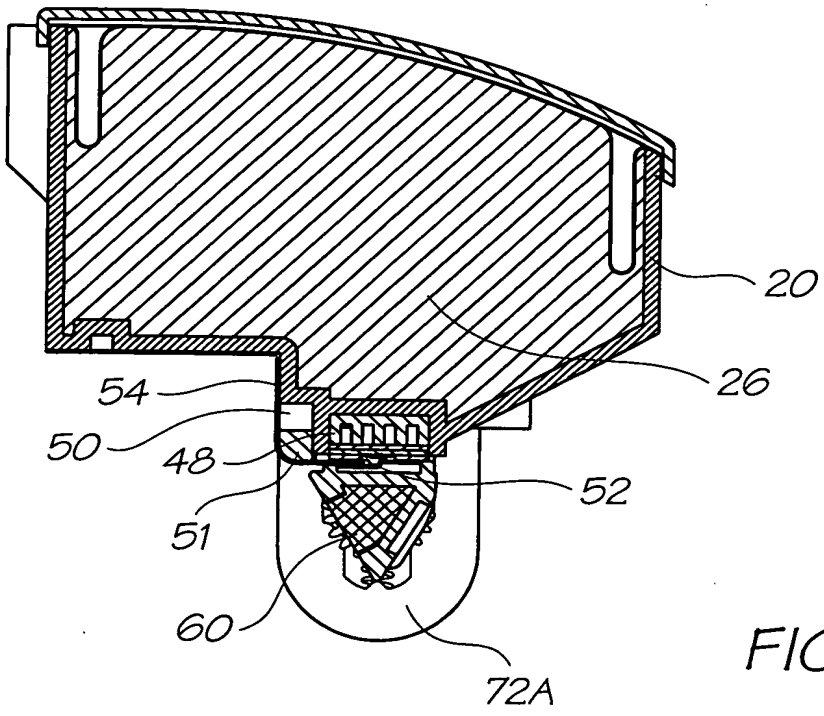



FIG. 9

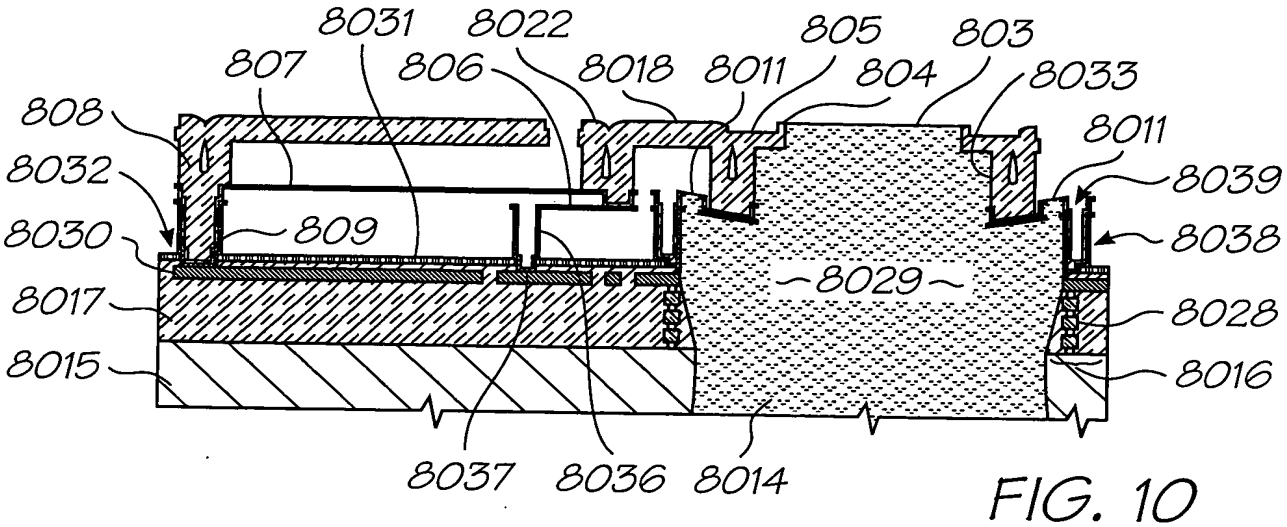



FIG. 10

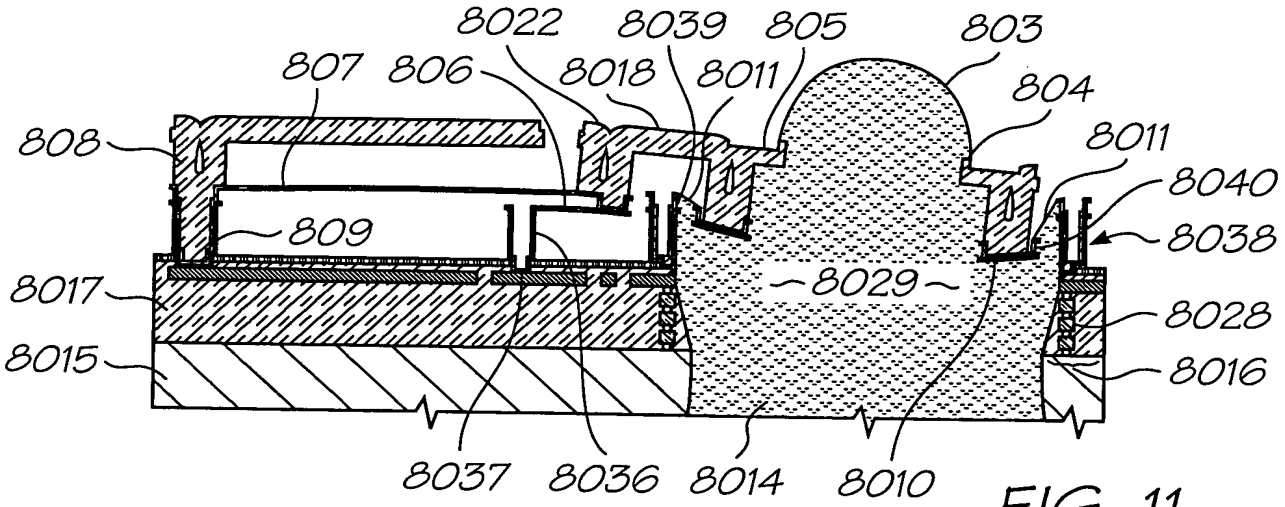



FIG. 11

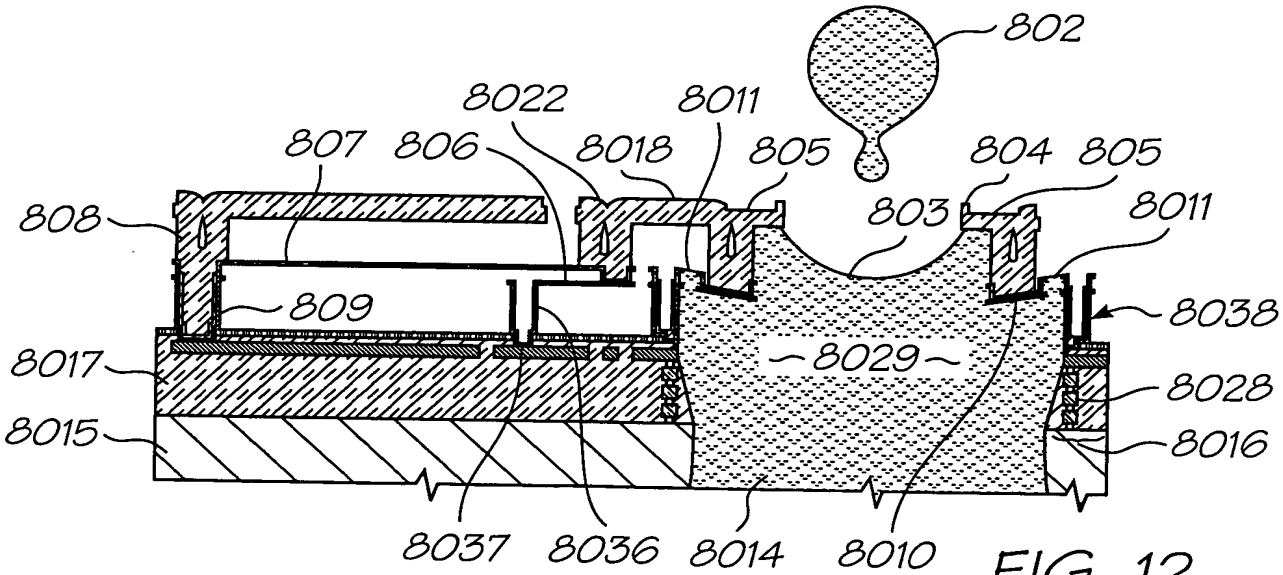



FIG. 12

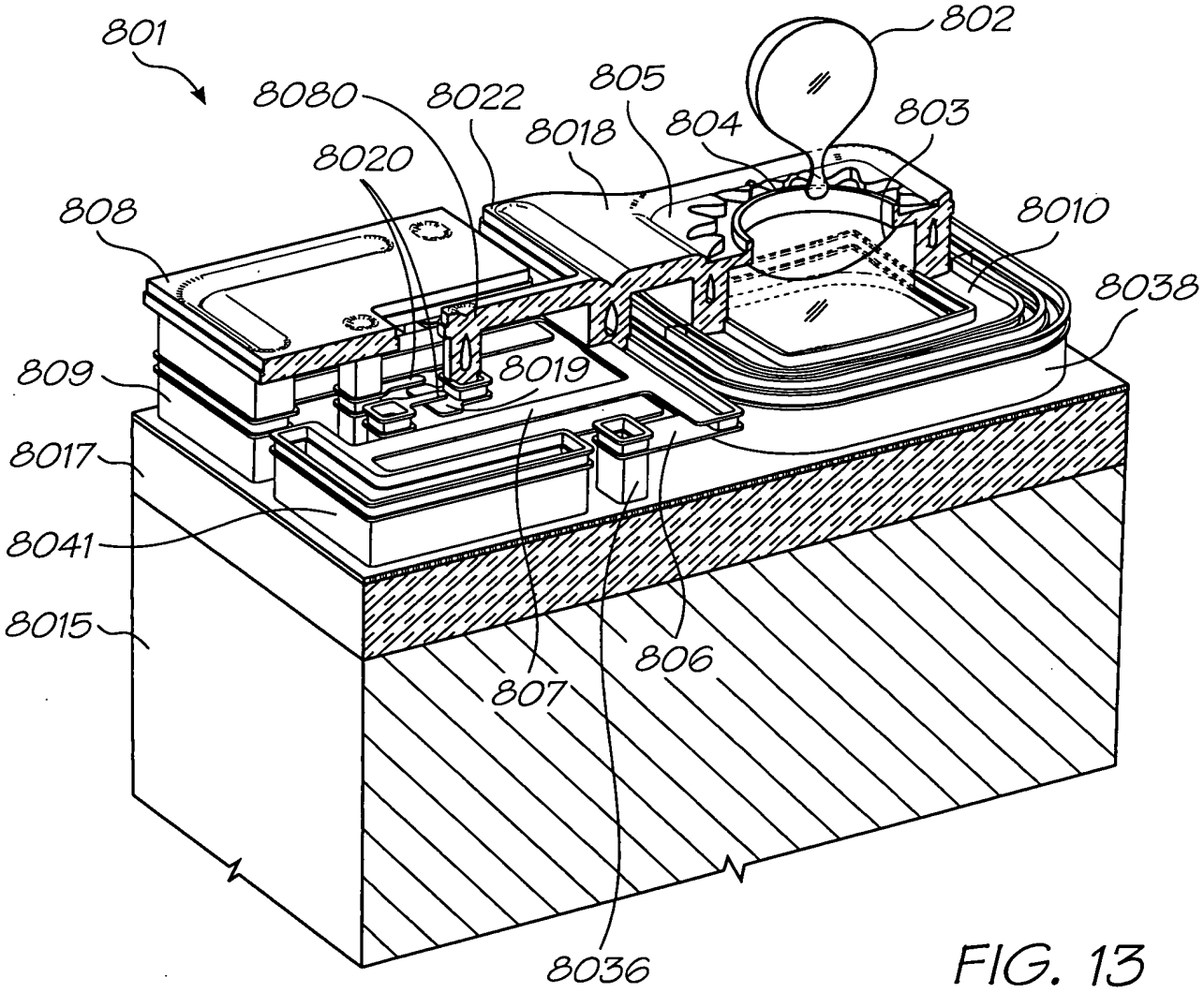

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FIG. 13

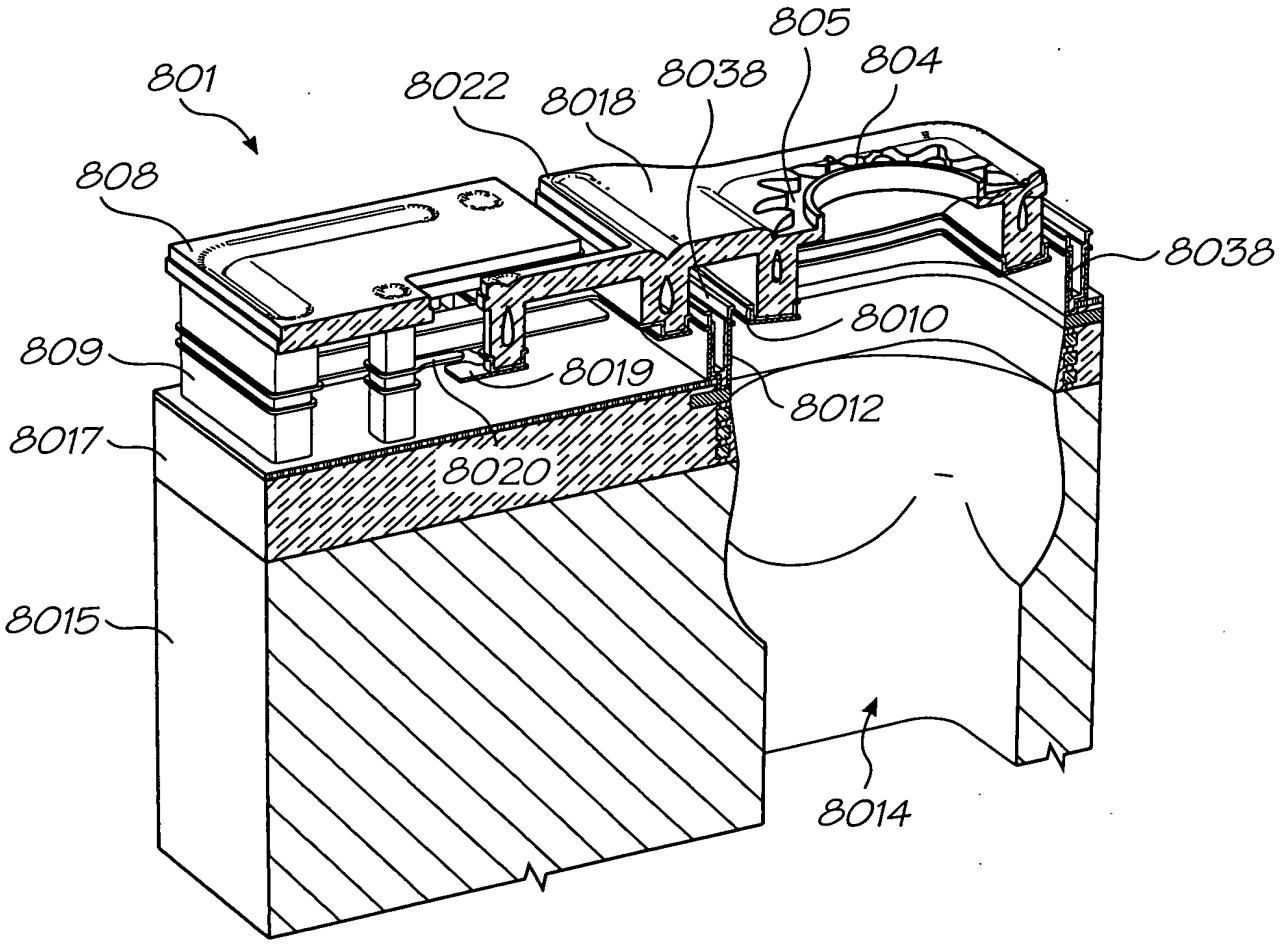

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FIG. 14

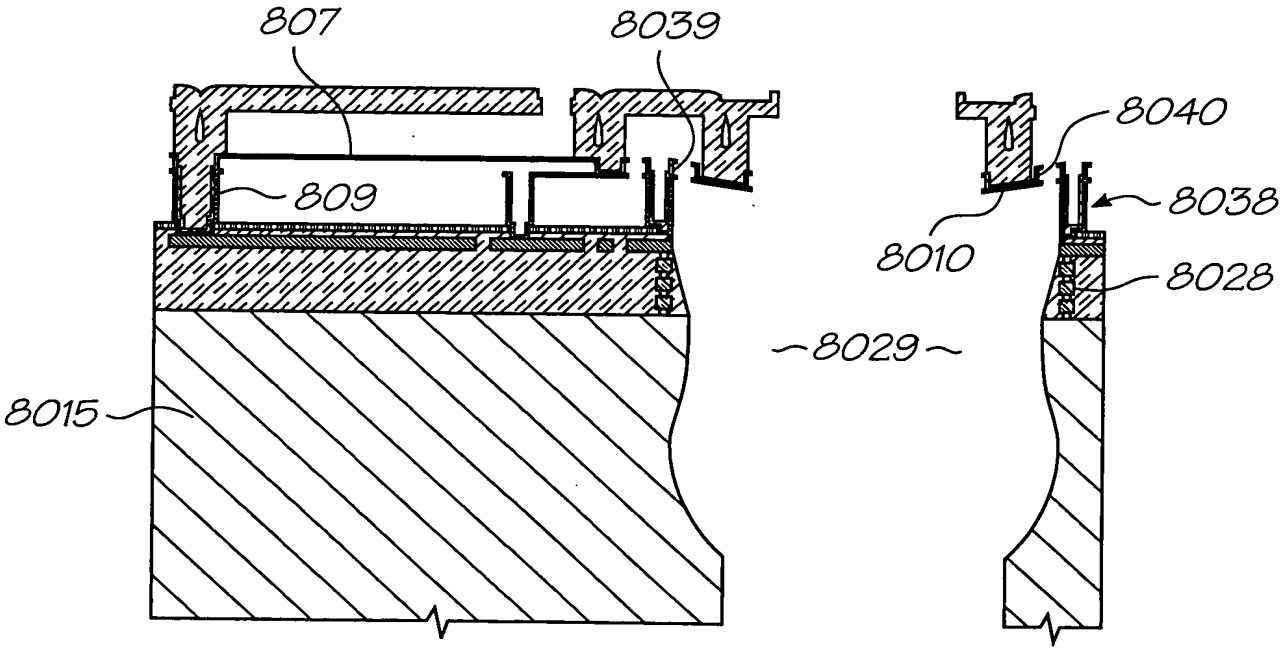

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FIG. 15

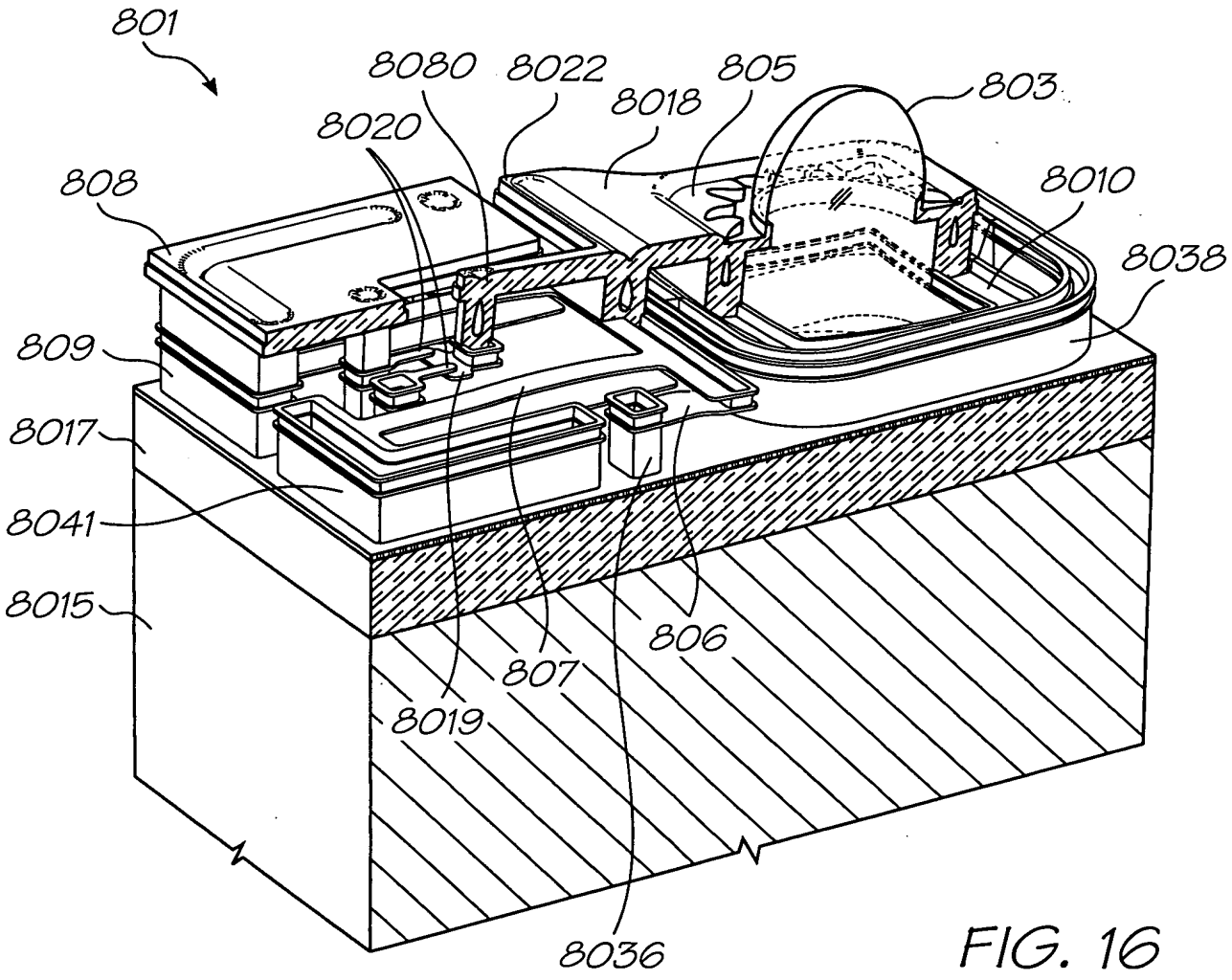

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FIG. 16

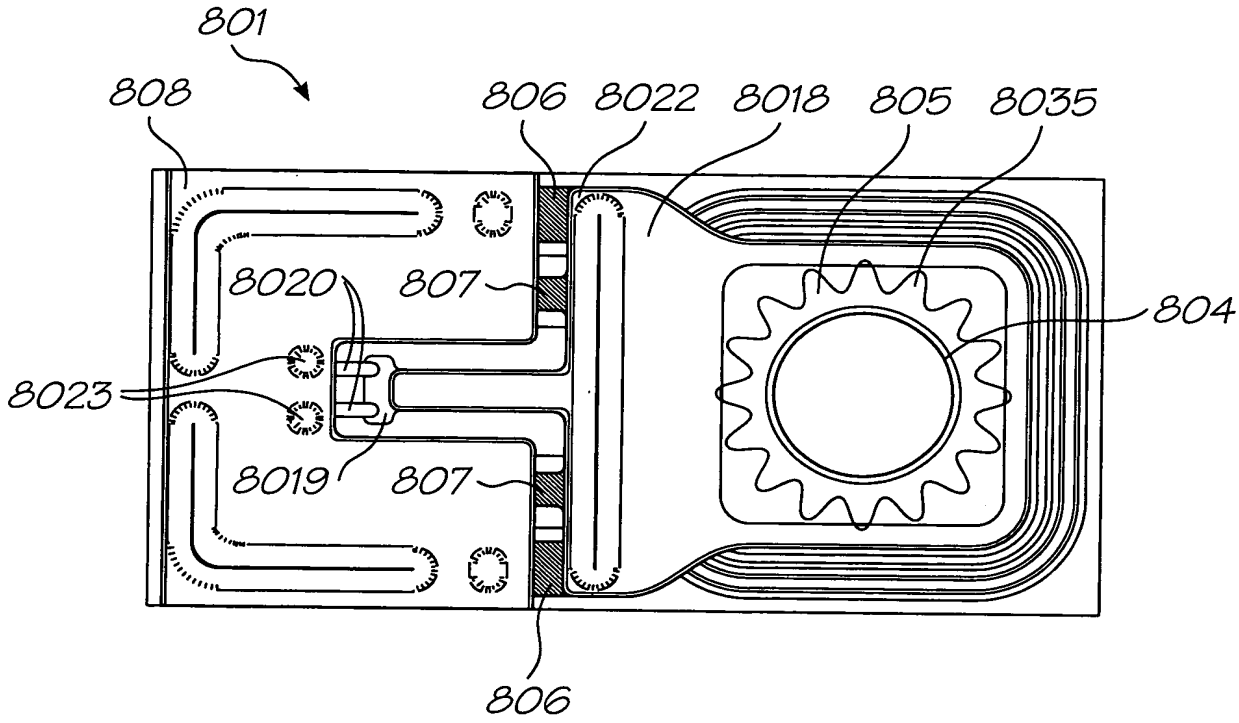

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FIG. 17

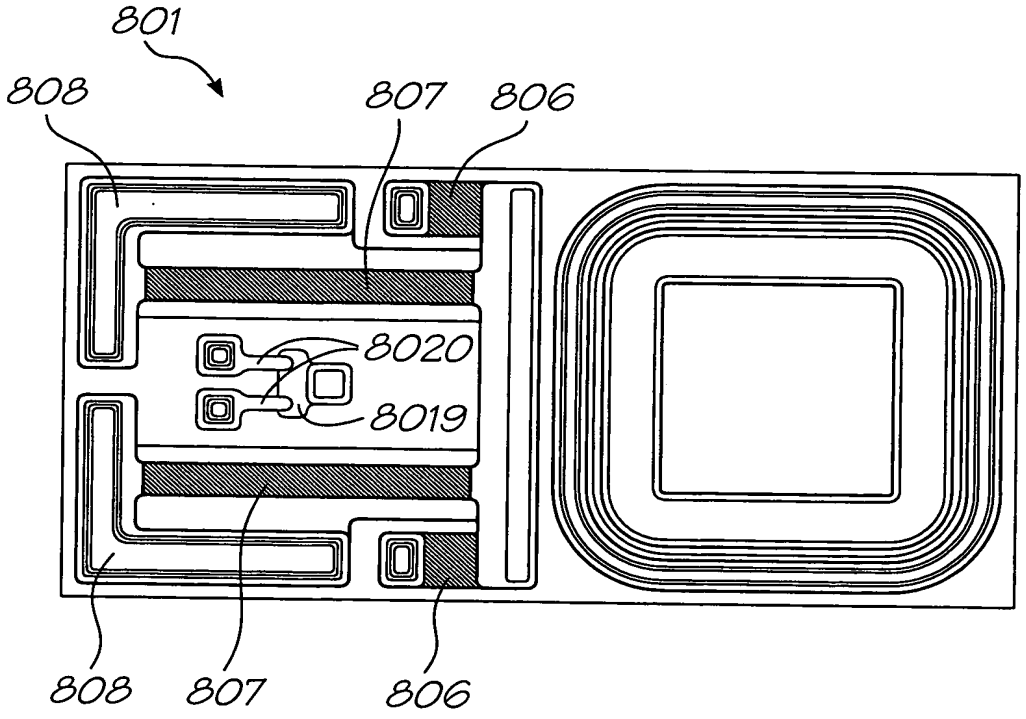

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FIG. 18

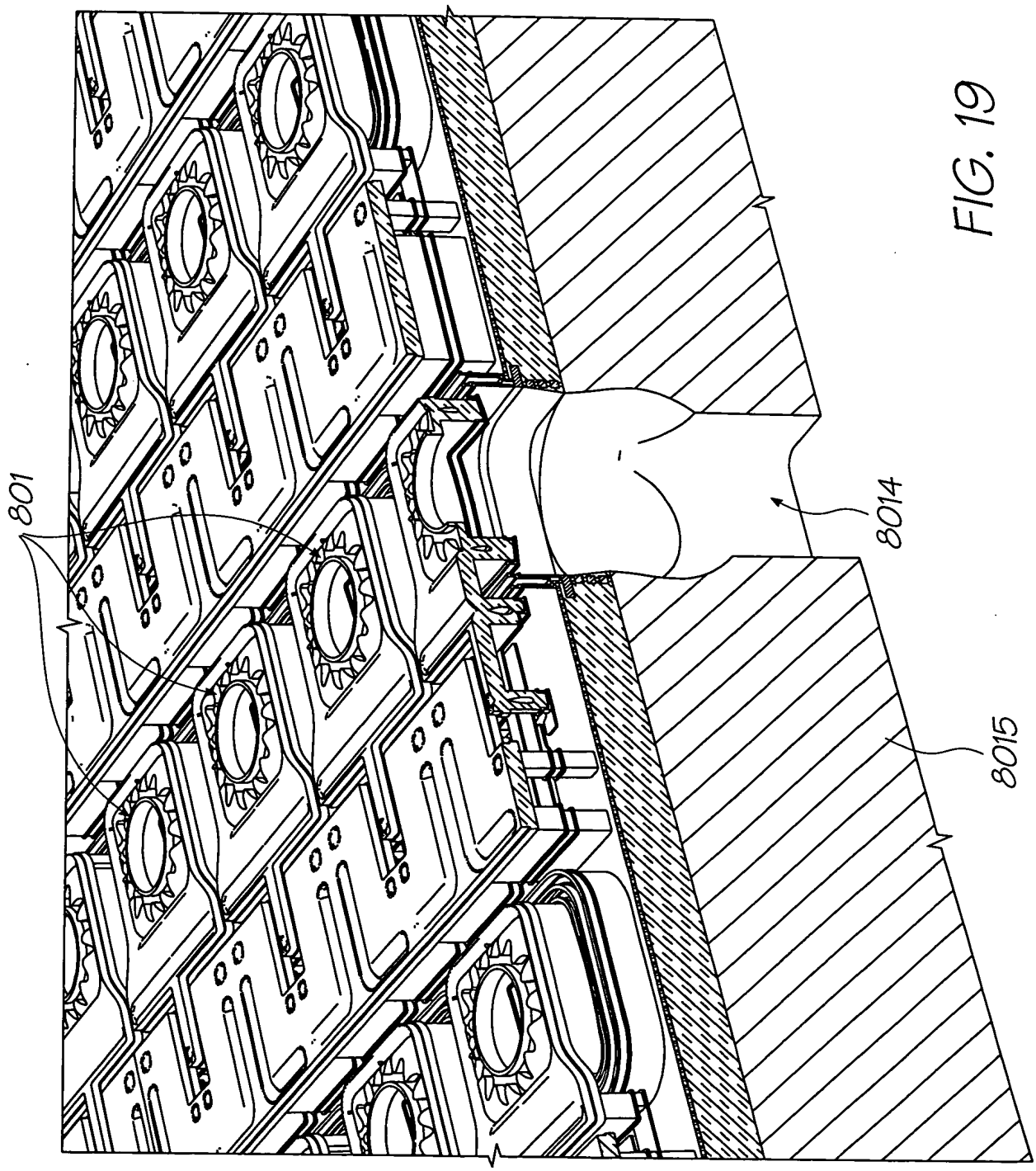



FIG. 19

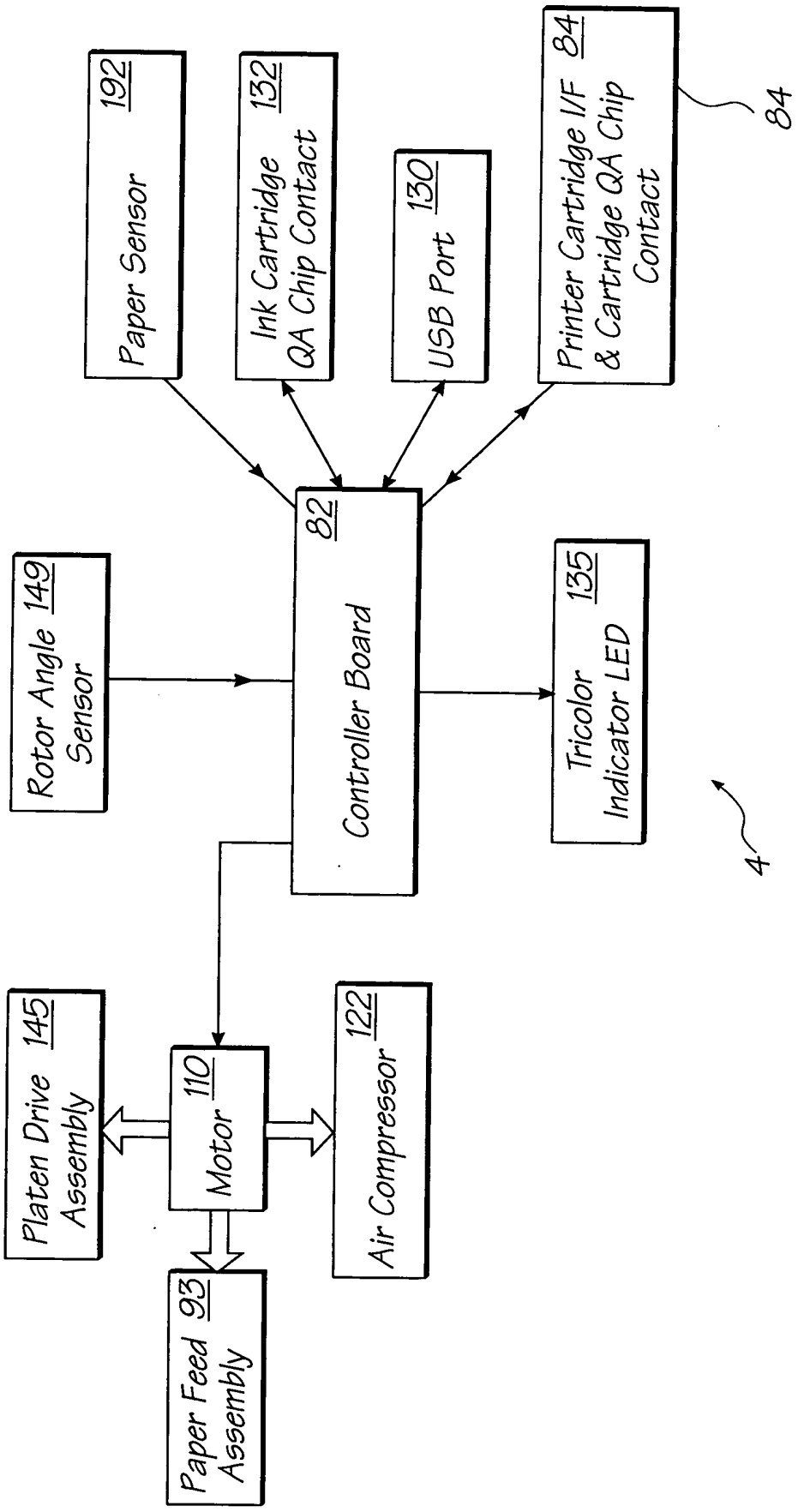

Paper Sensor 192
Ink Cartridge QA Chip Contact 132
USB Port 130
Printer Cartridge I/F & Cartridge QA Chip Contact 84
84
Rotor Angle Sensor 149
82
Controller Board
Tricolor Indicator LED 135
4
Platen Drive Assembly 145
Motor 110
Air Compressor 122
Paper Feed Assembly 93

FIG. 20

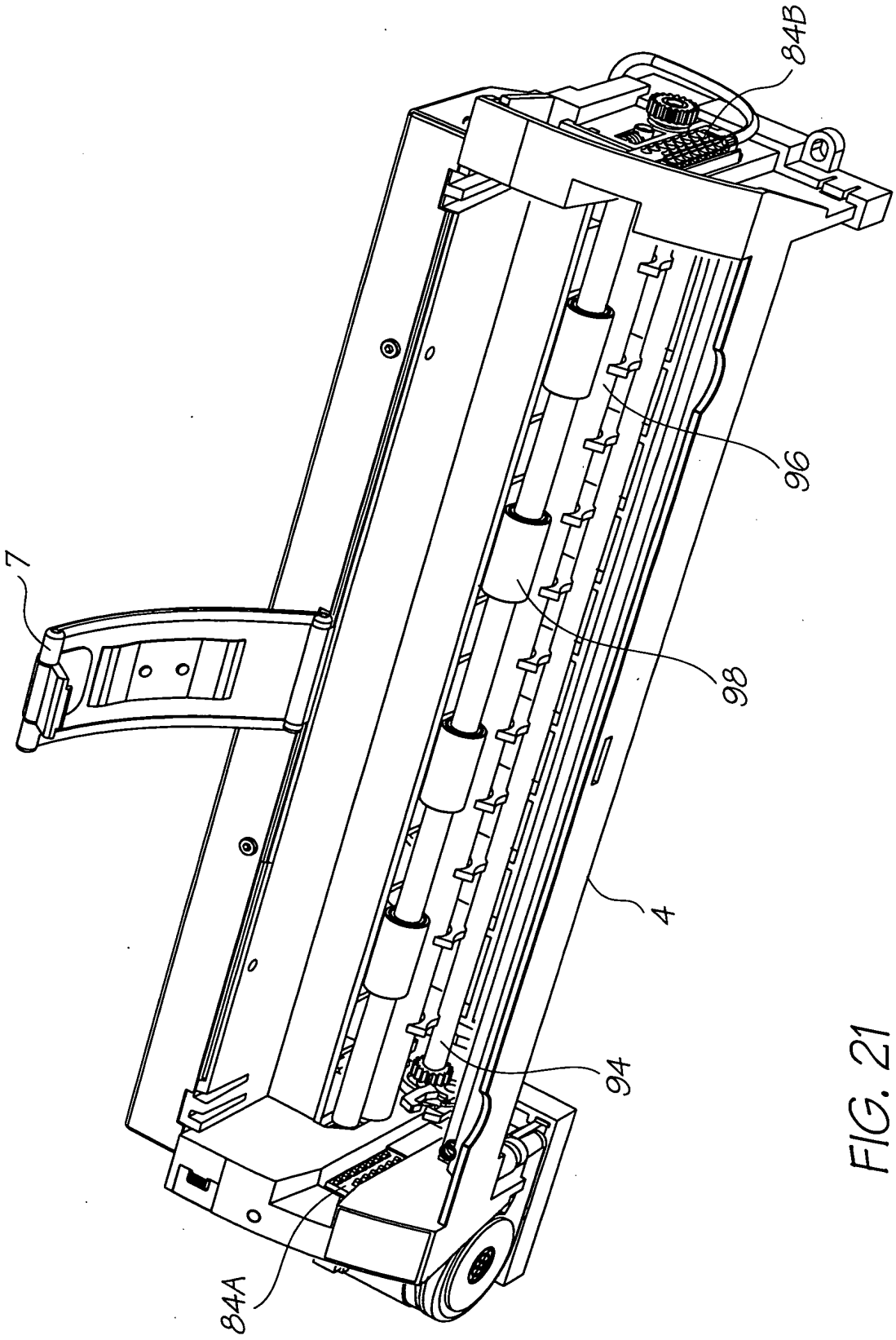



FIG. 21

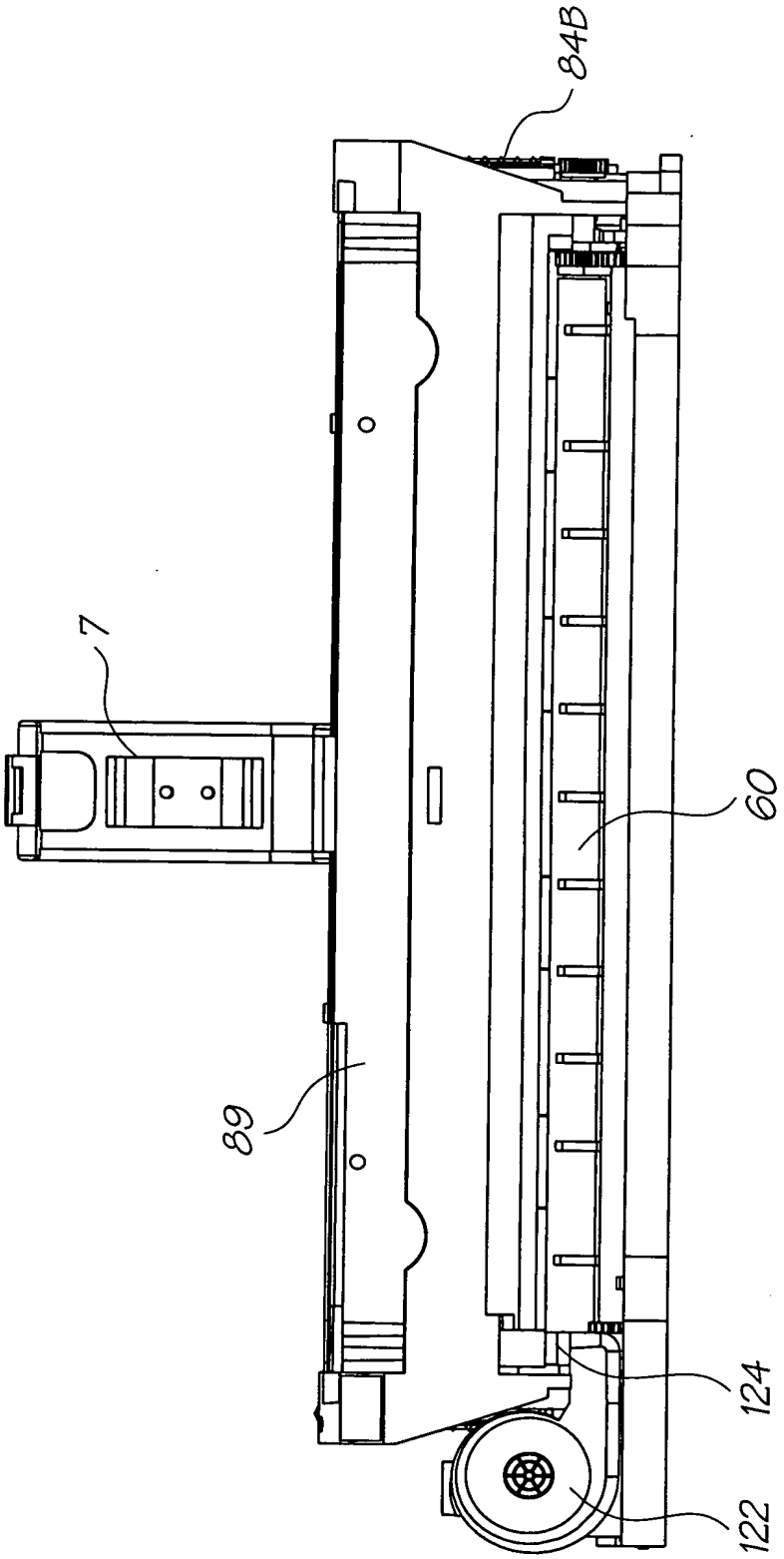



FIG. 22

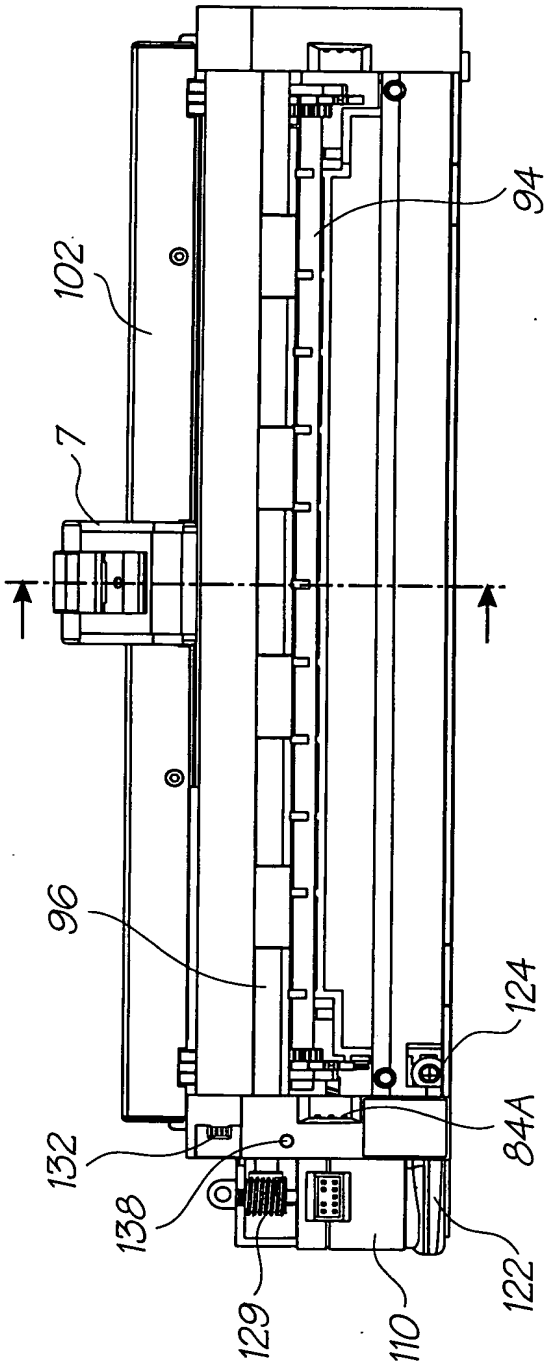



FIG. 23

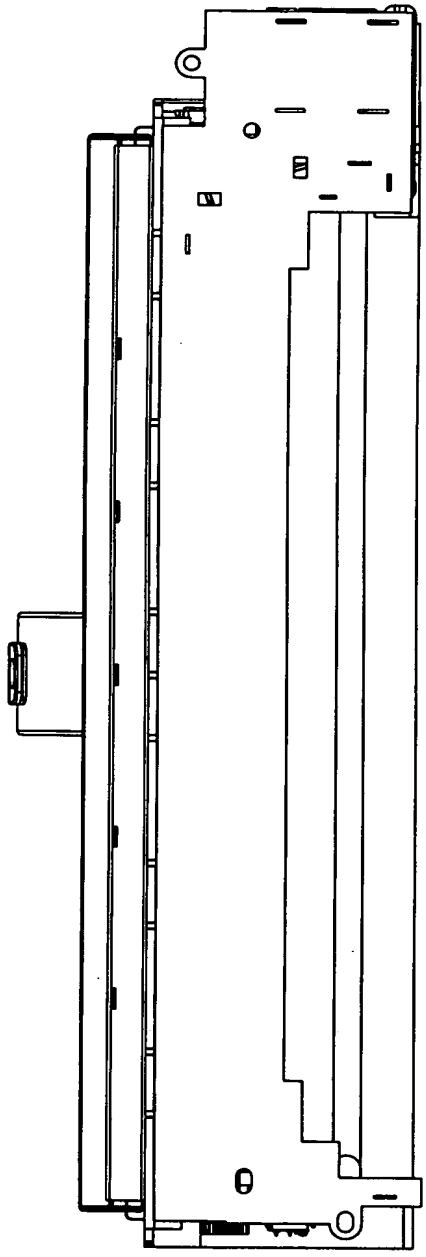


FIG. 24

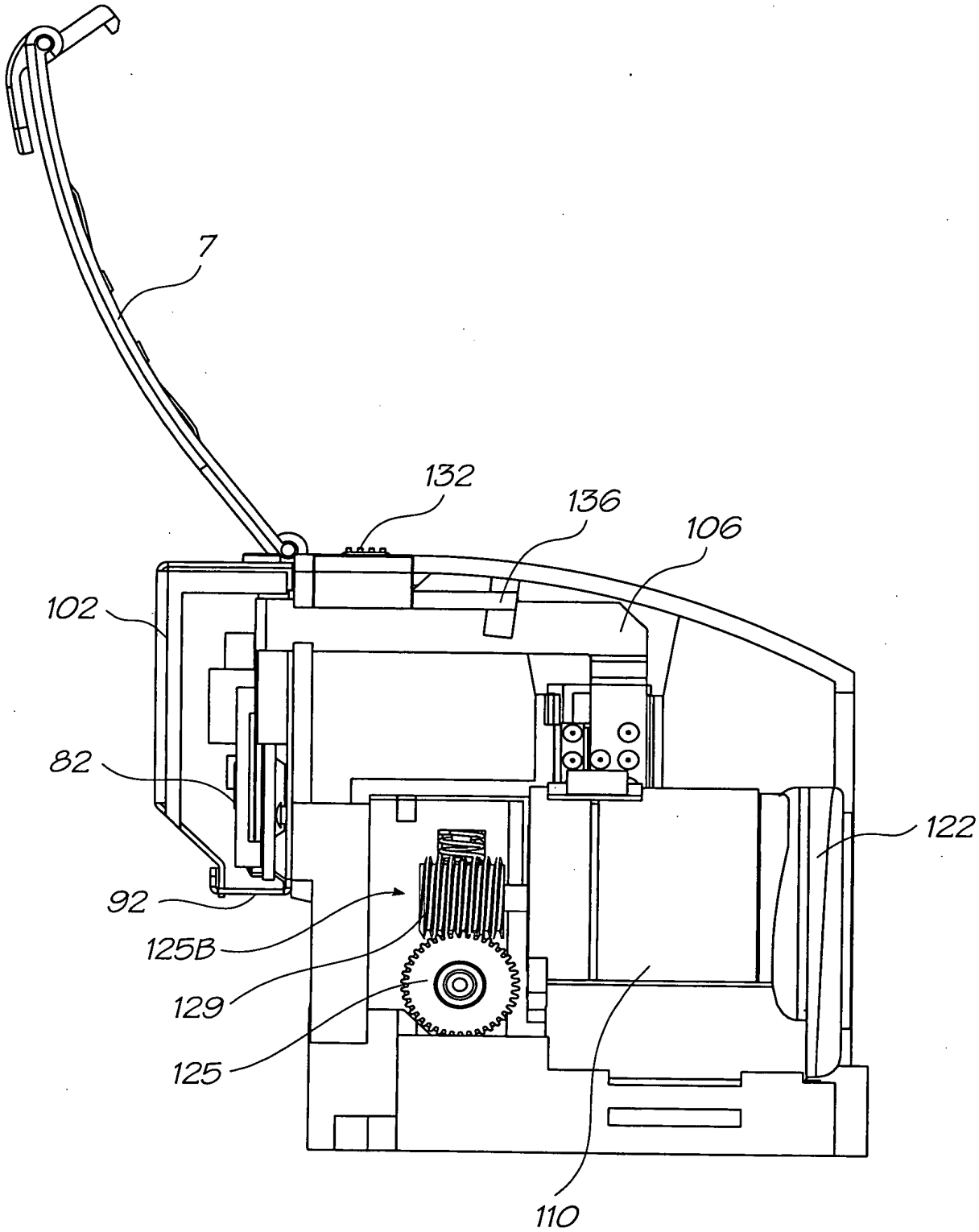



FIG. 25

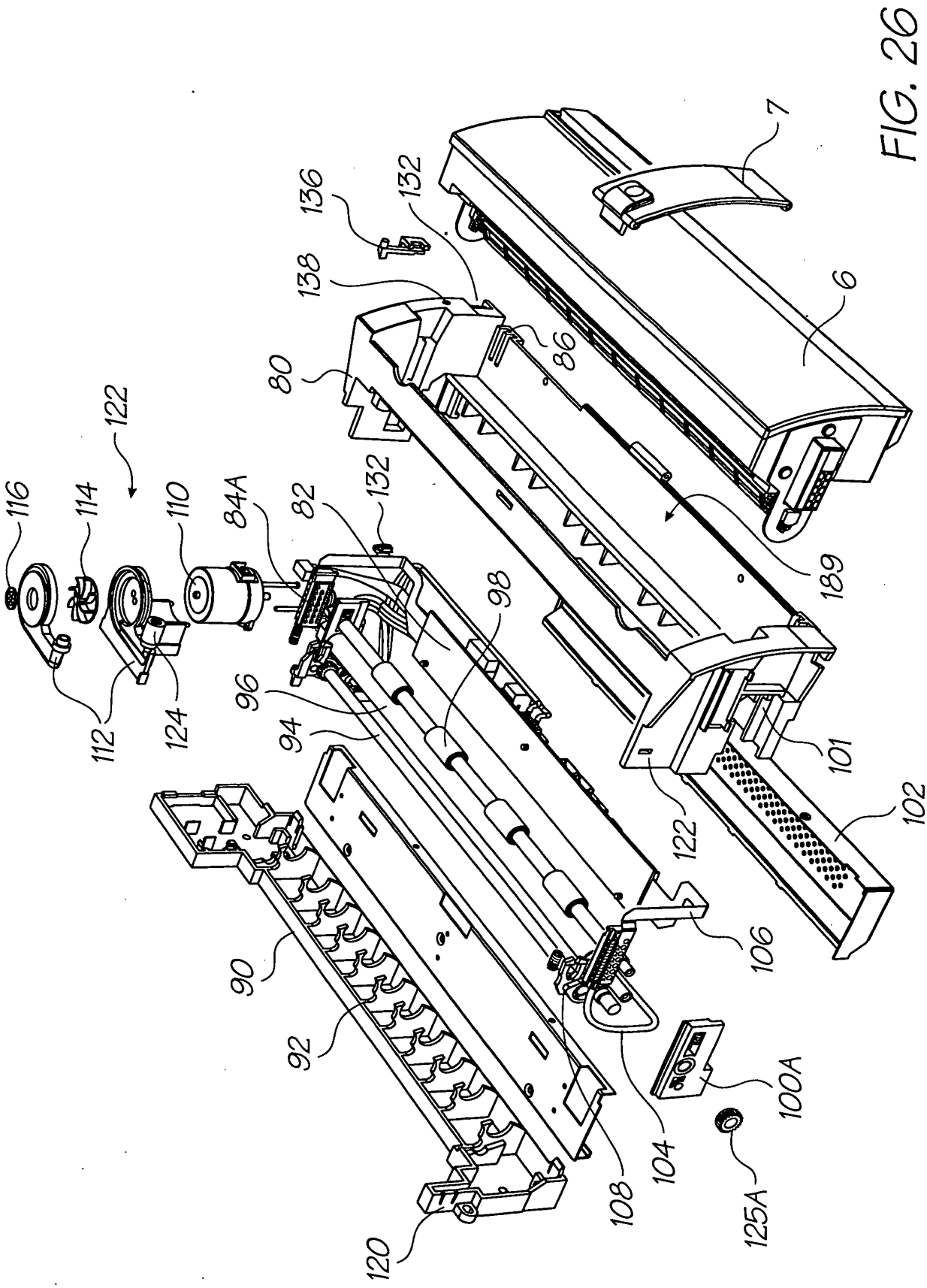

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100A
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125A
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FIG. 26

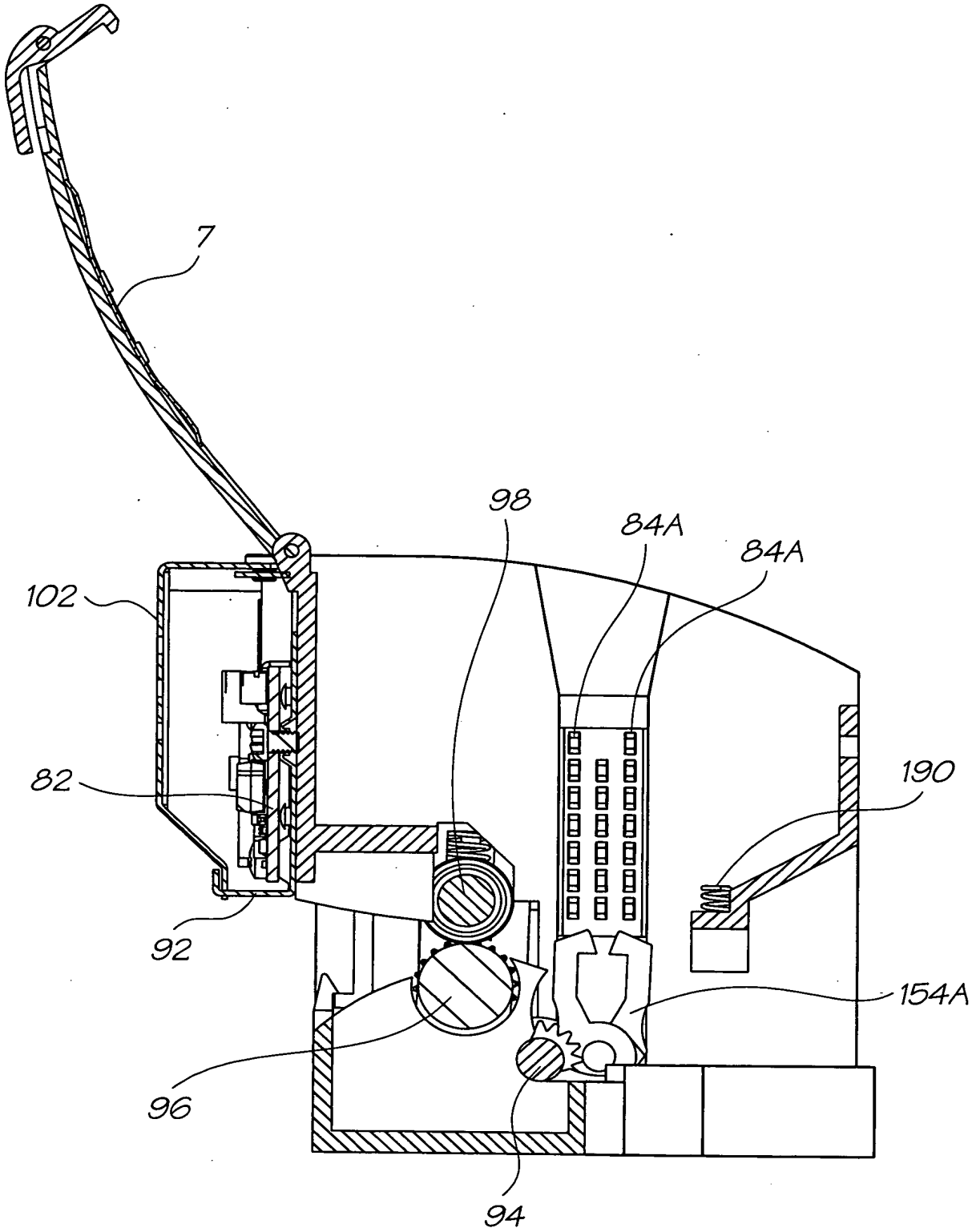



FIG. 27

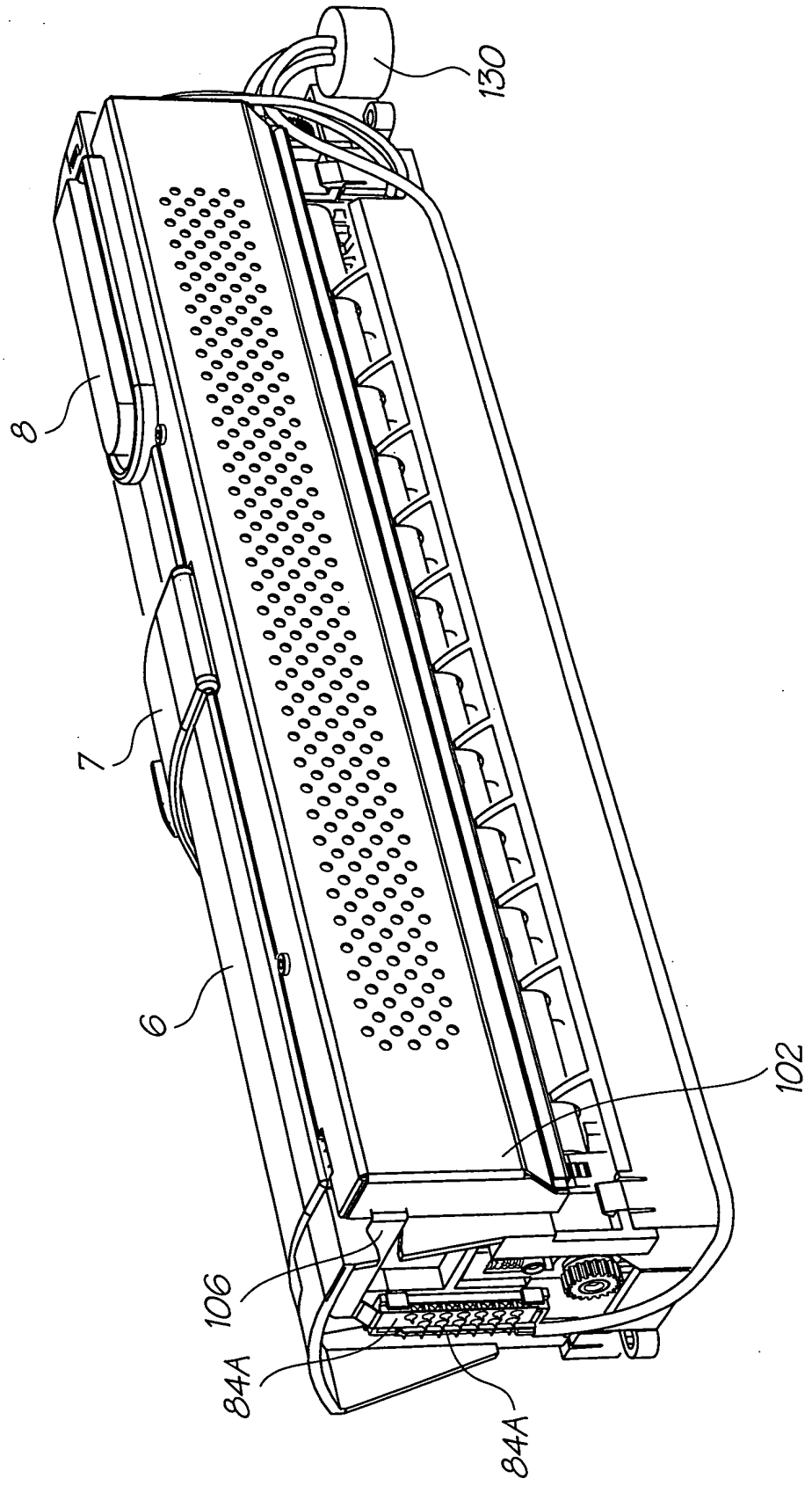



FIG. 28

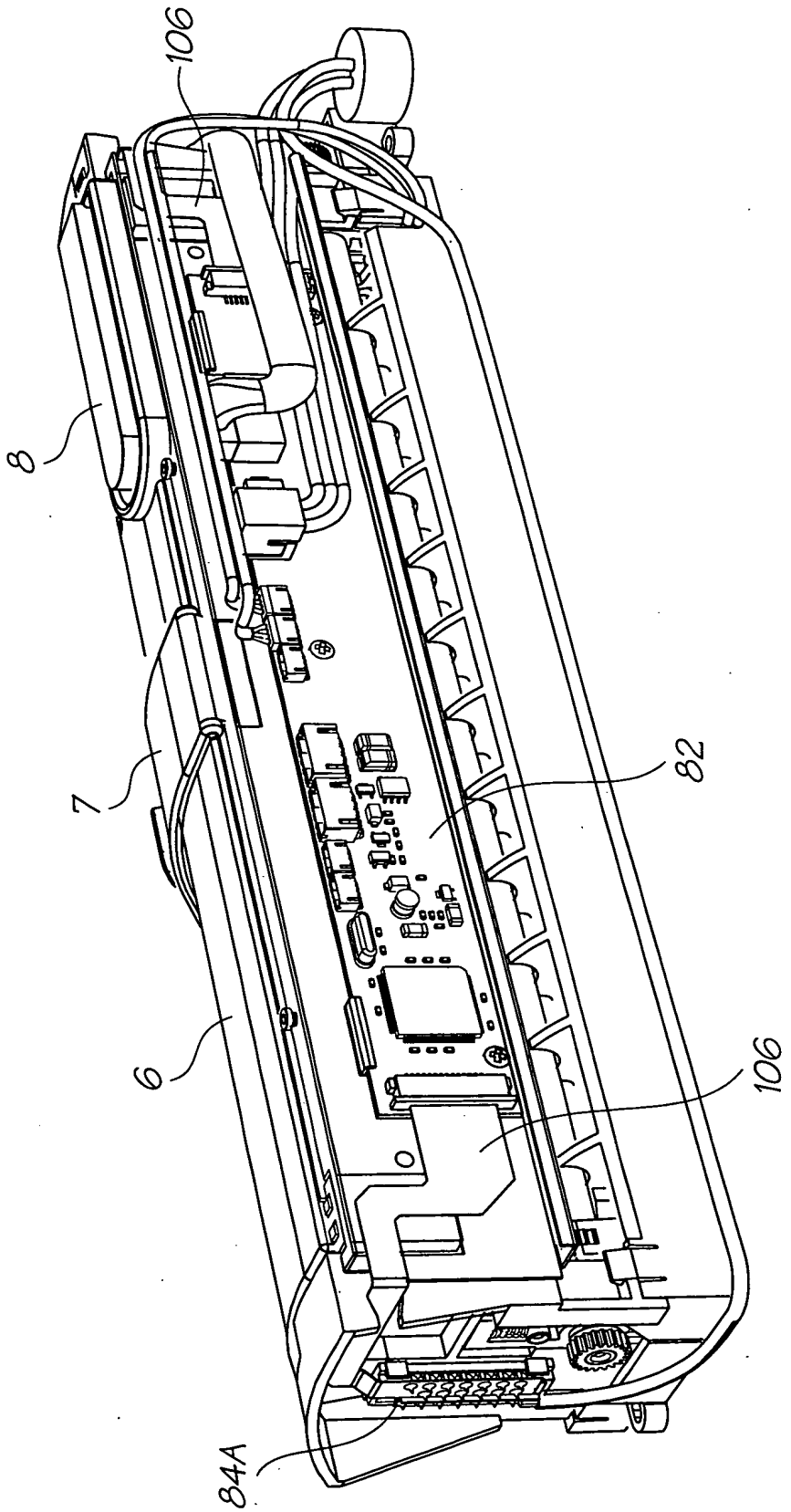



FIG. 29

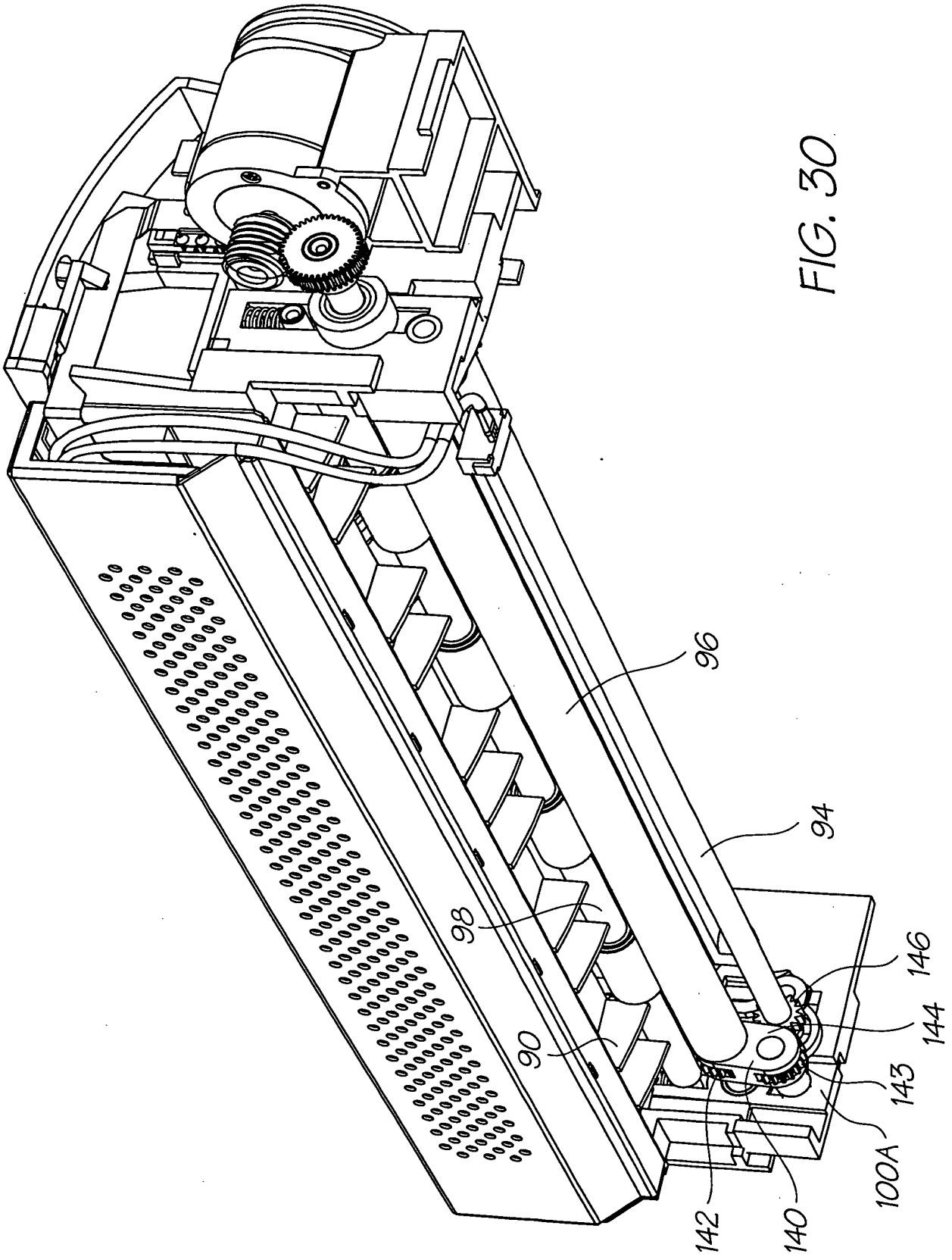



FIG. 30

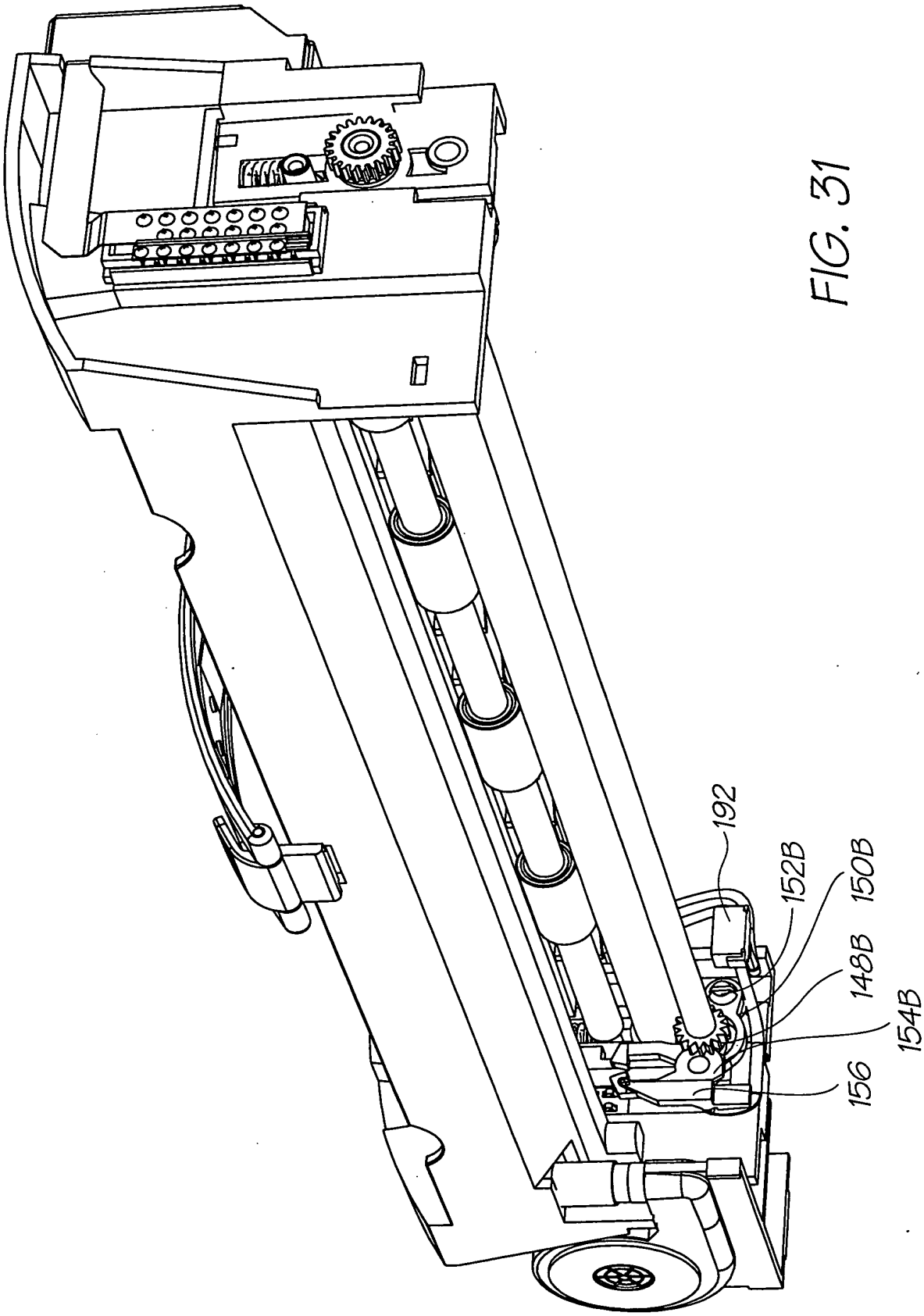



FIG. 31

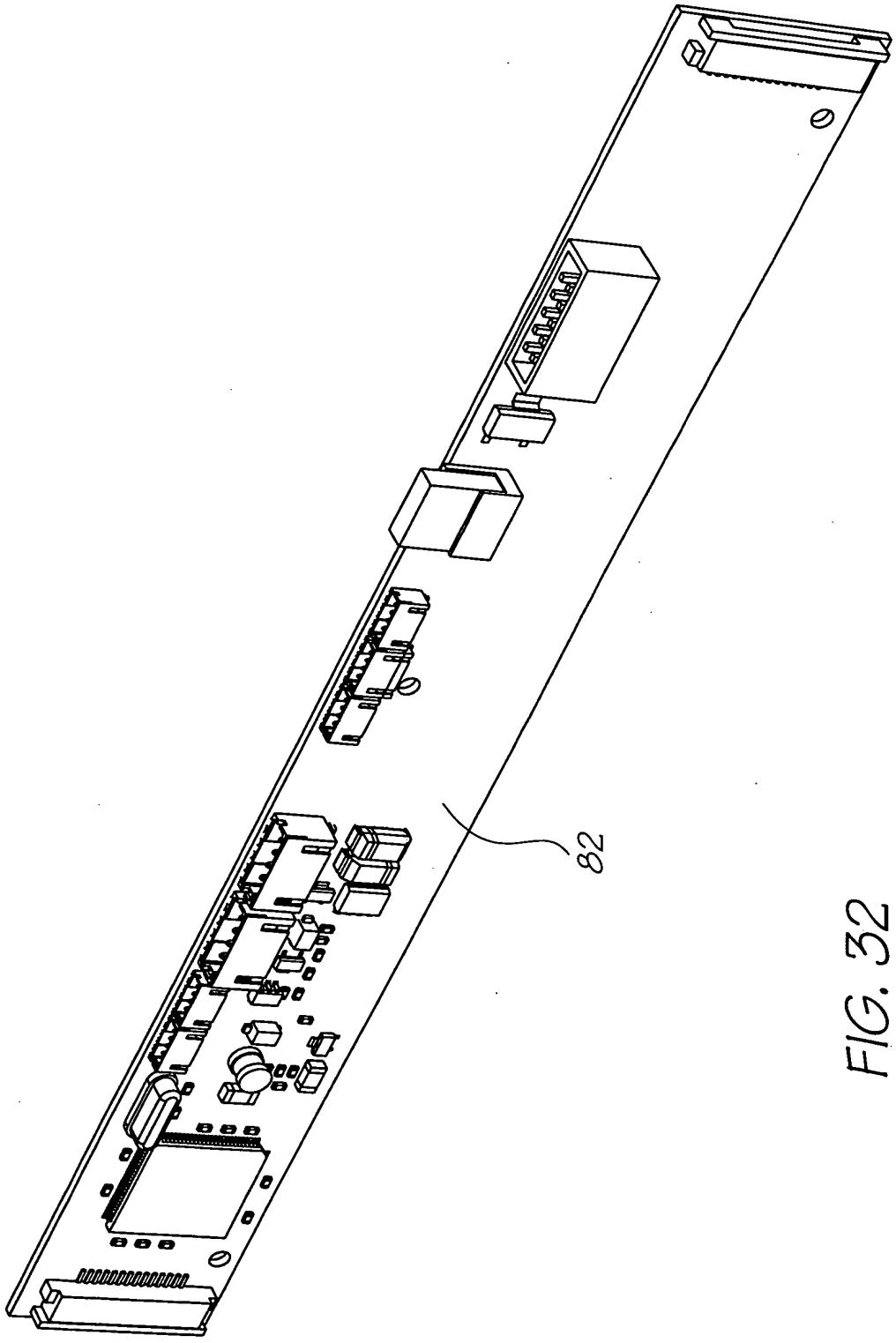



FIG. 32

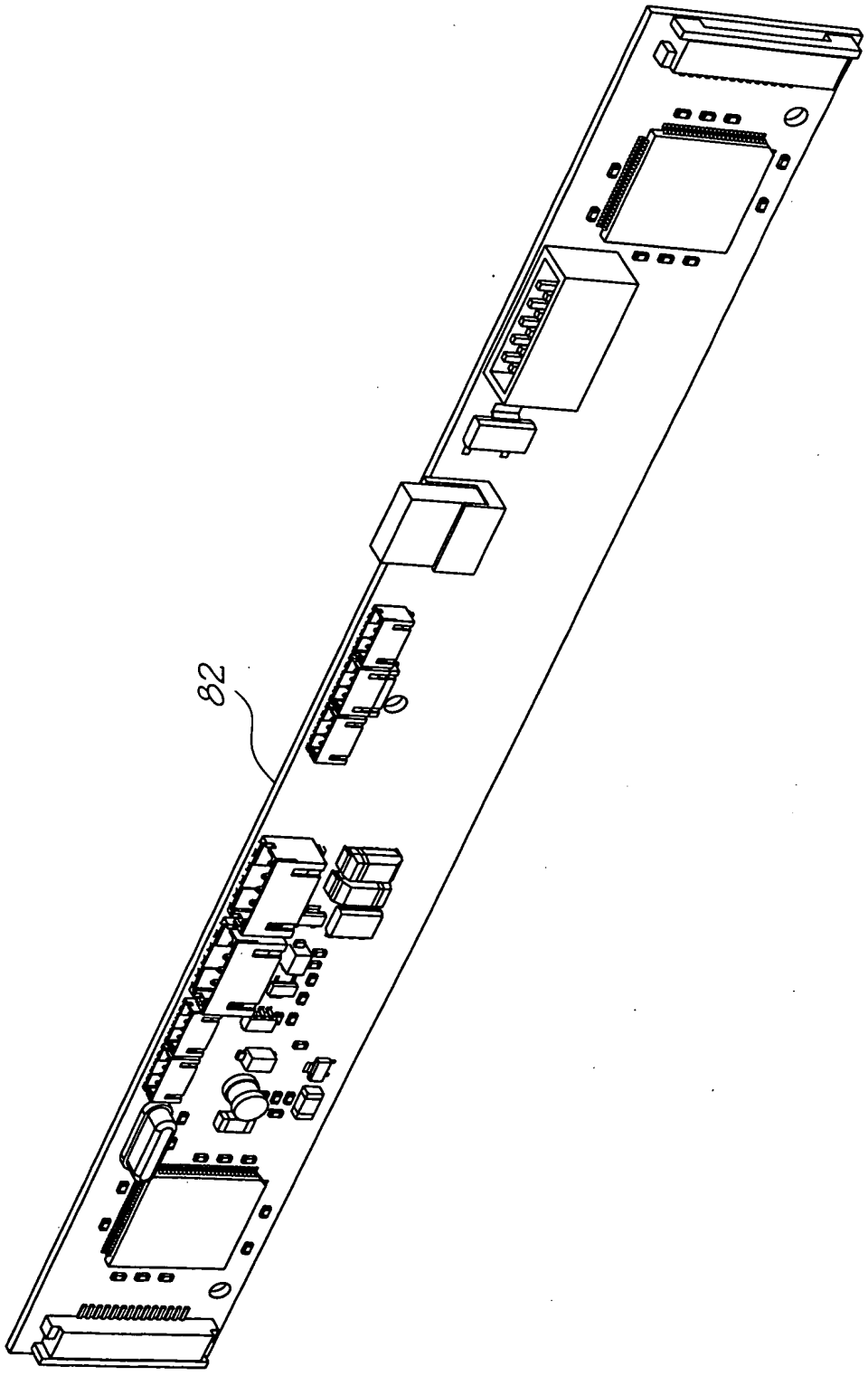



FIG. 33

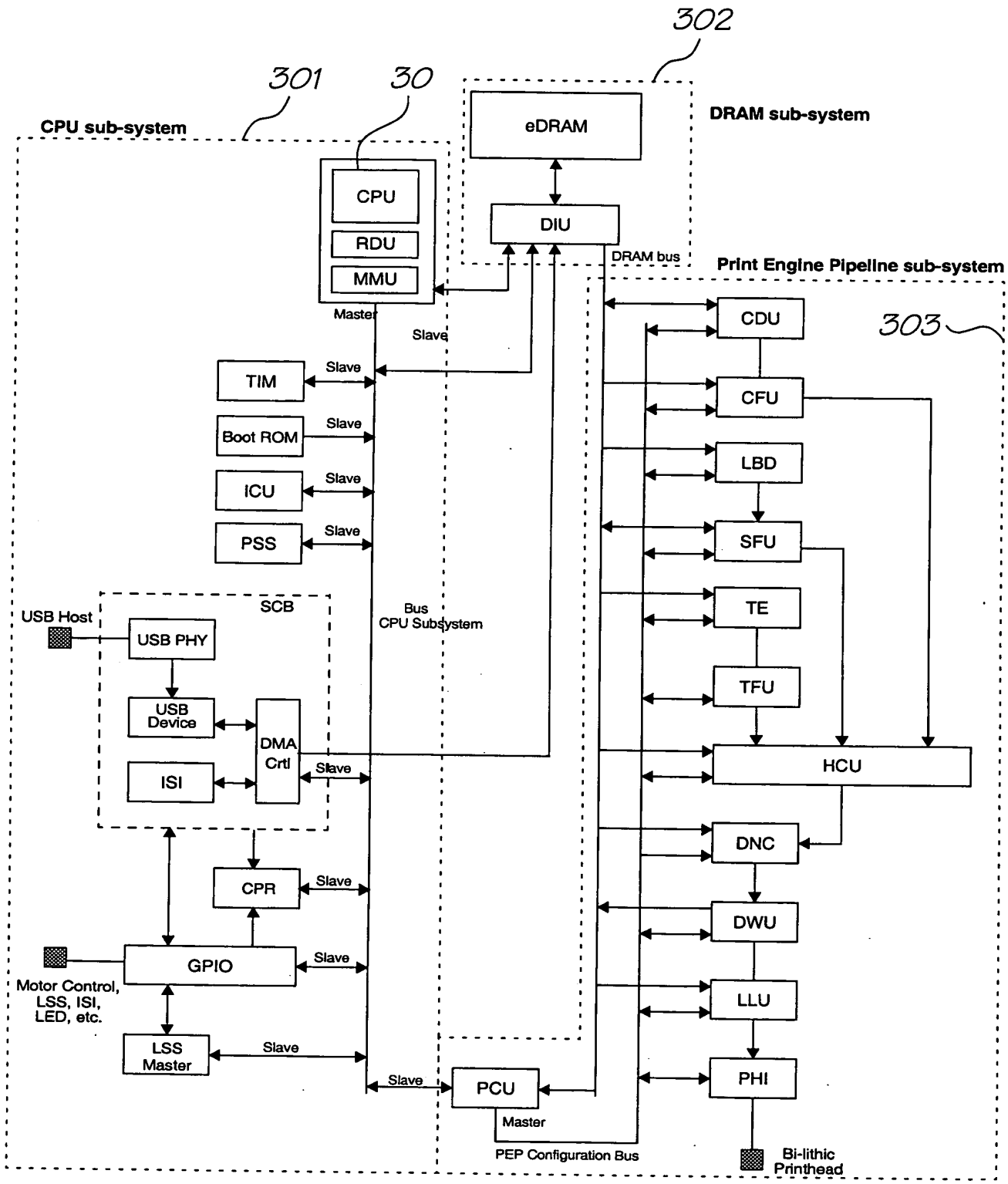

302
301
30
CPU sub-system
DRAM sub-system
eDRAM
CPU
RDU
MMU
DIU
DRAM bus
Print Engine Pipeline sub-system
303
Master
Slave
TIM
Boot ROM
ICU
PSS
CDU
CFU
LBD
SFU
TE
TFU
HCU
DNC
DWU
LLU
PHI
SCB
USB Host
USB PHY
USB Device
ISI
DMA Crtl
Bus
CPU Subsystem
CPR
GPIO
Motor Control,
LSS, ISI,
LED, etc.
LSS Master
PCU
PEP Configuration Bus
Bi-lithic
Printhead

FIG. 34

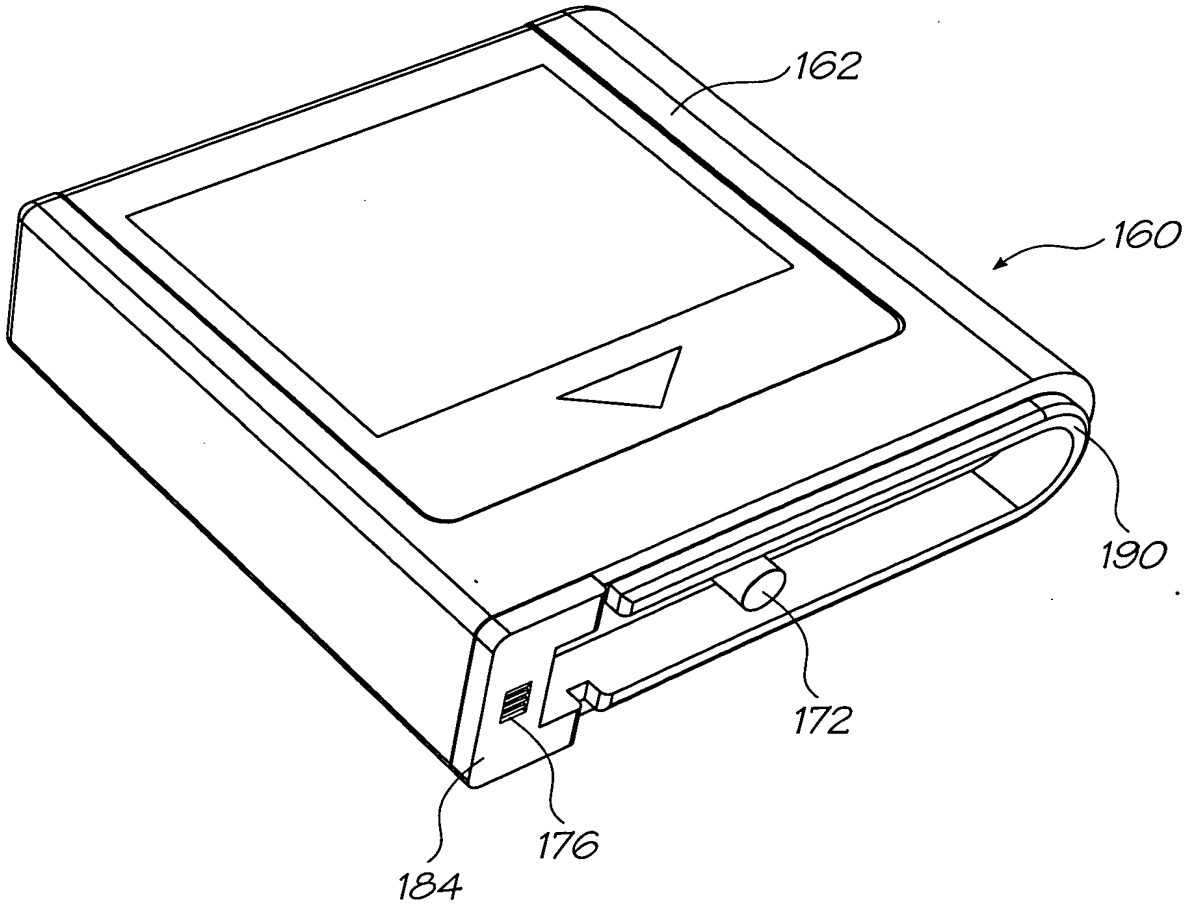



FIG. 35

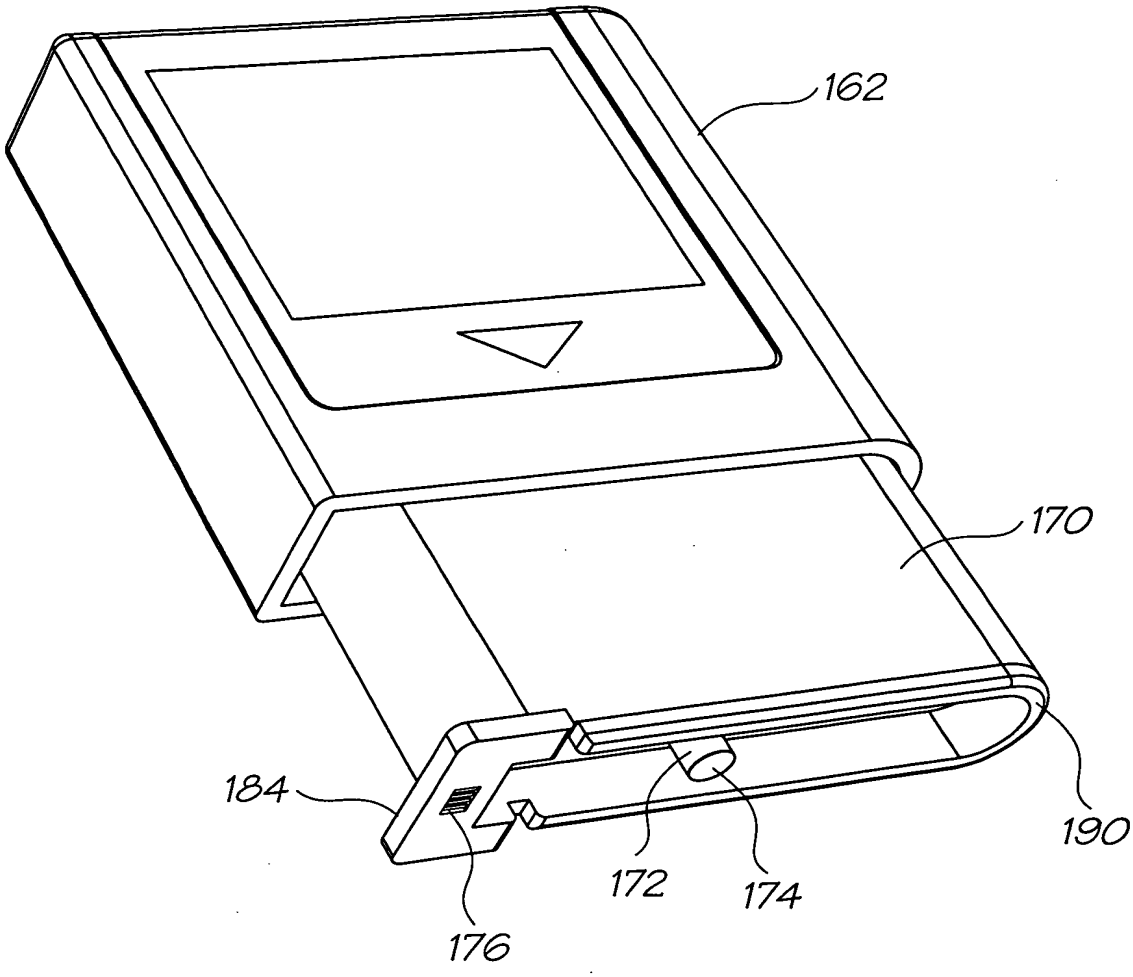



FIG. 36

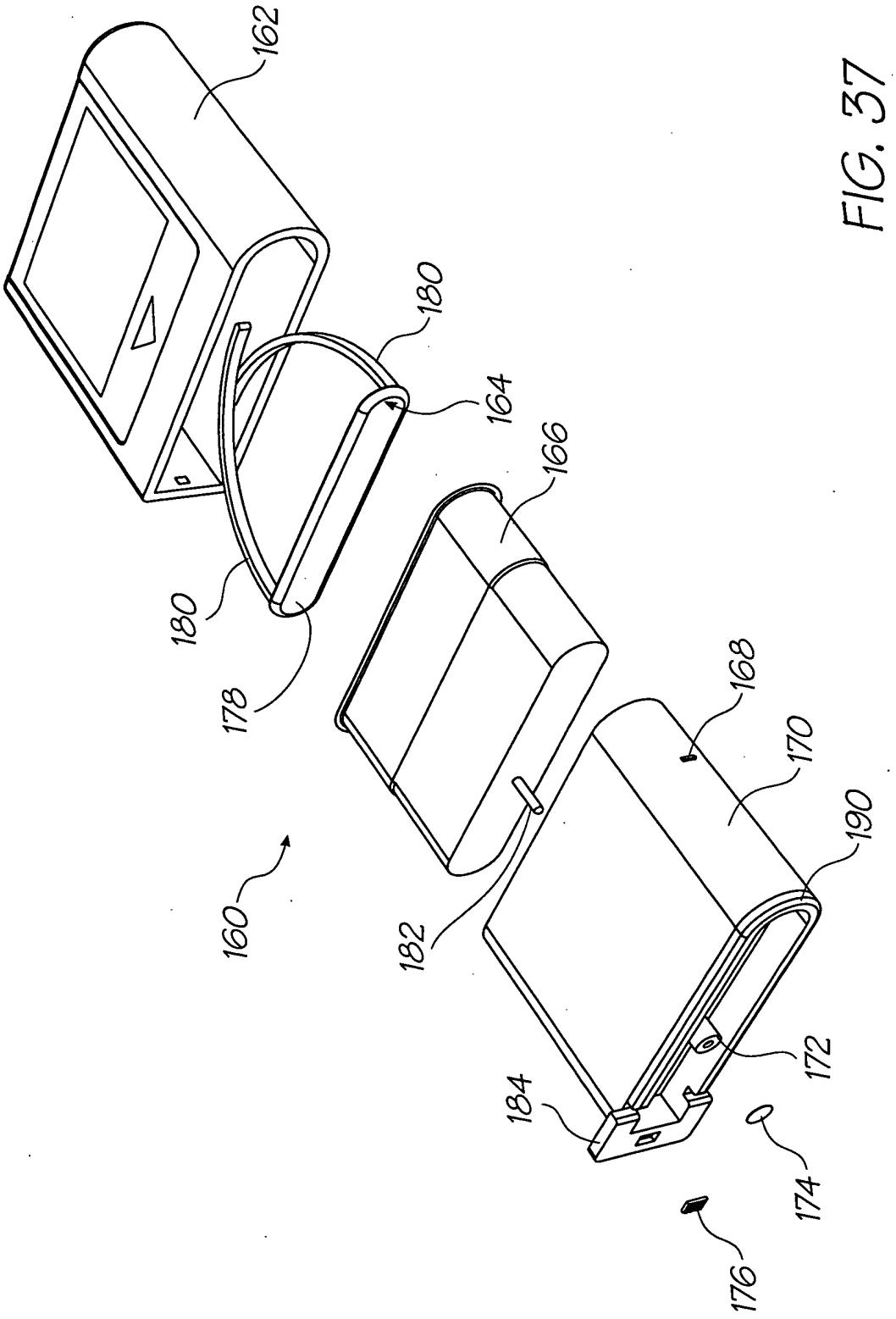



FIG. 37

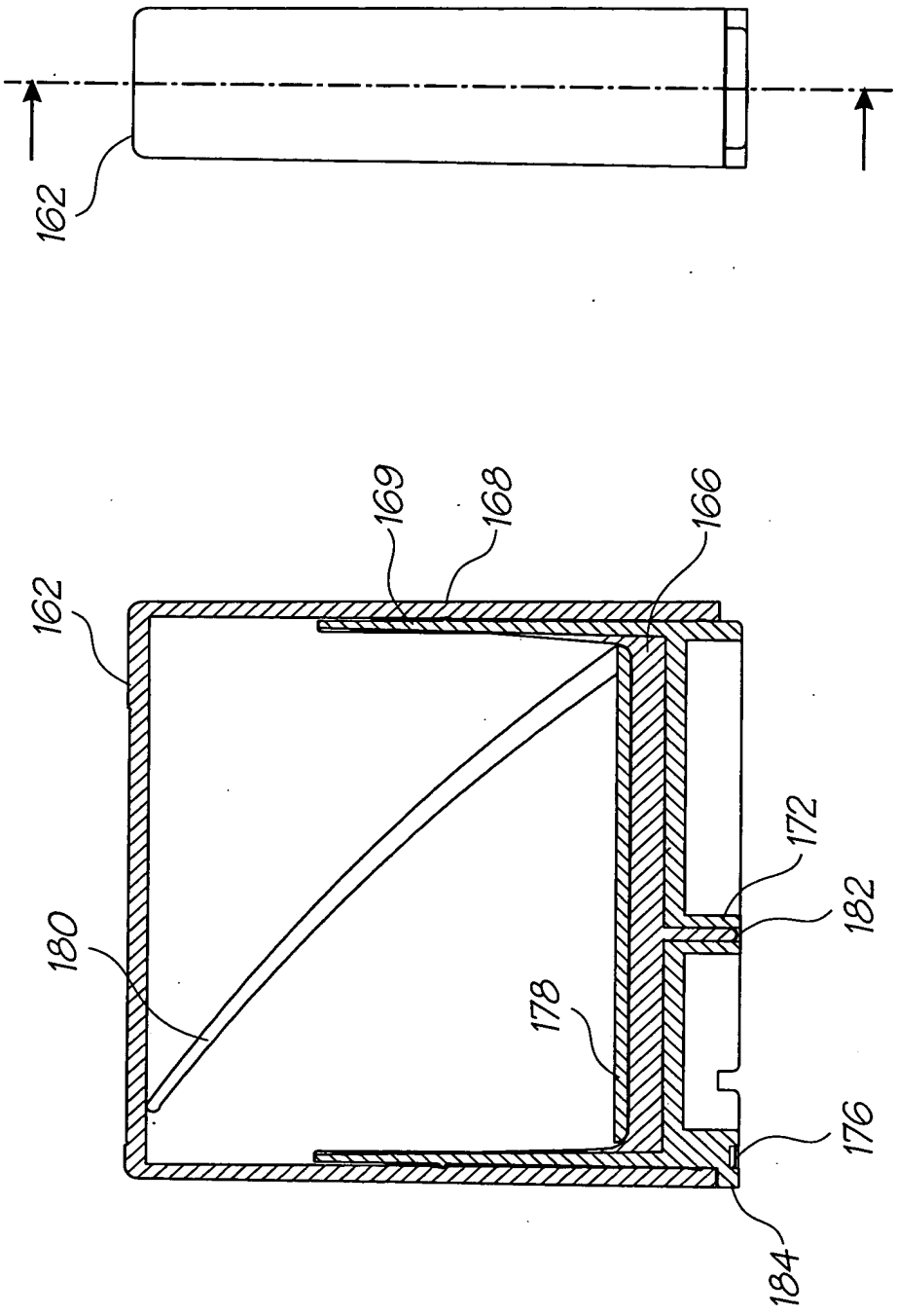



FIG. 38

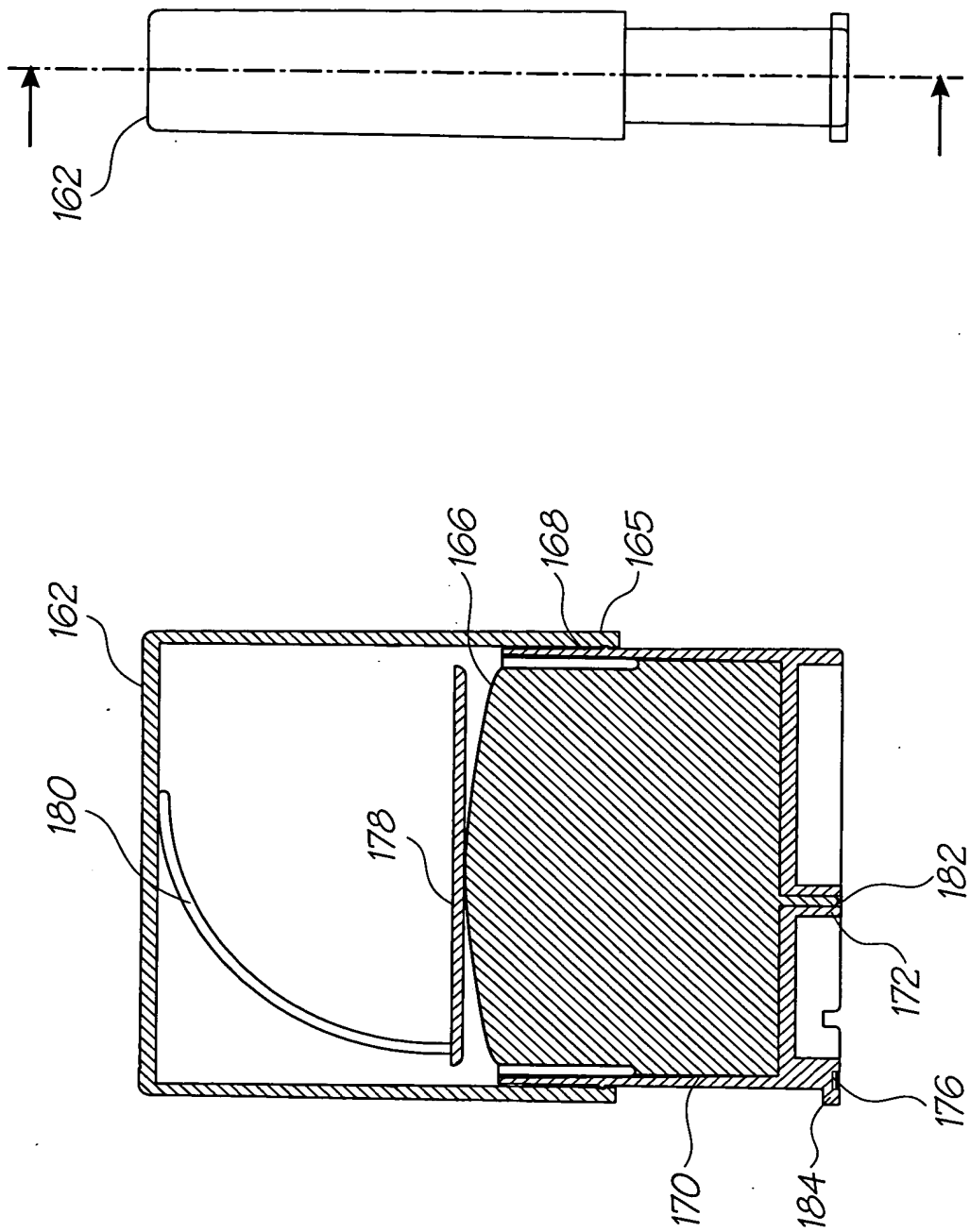



FIG. 39

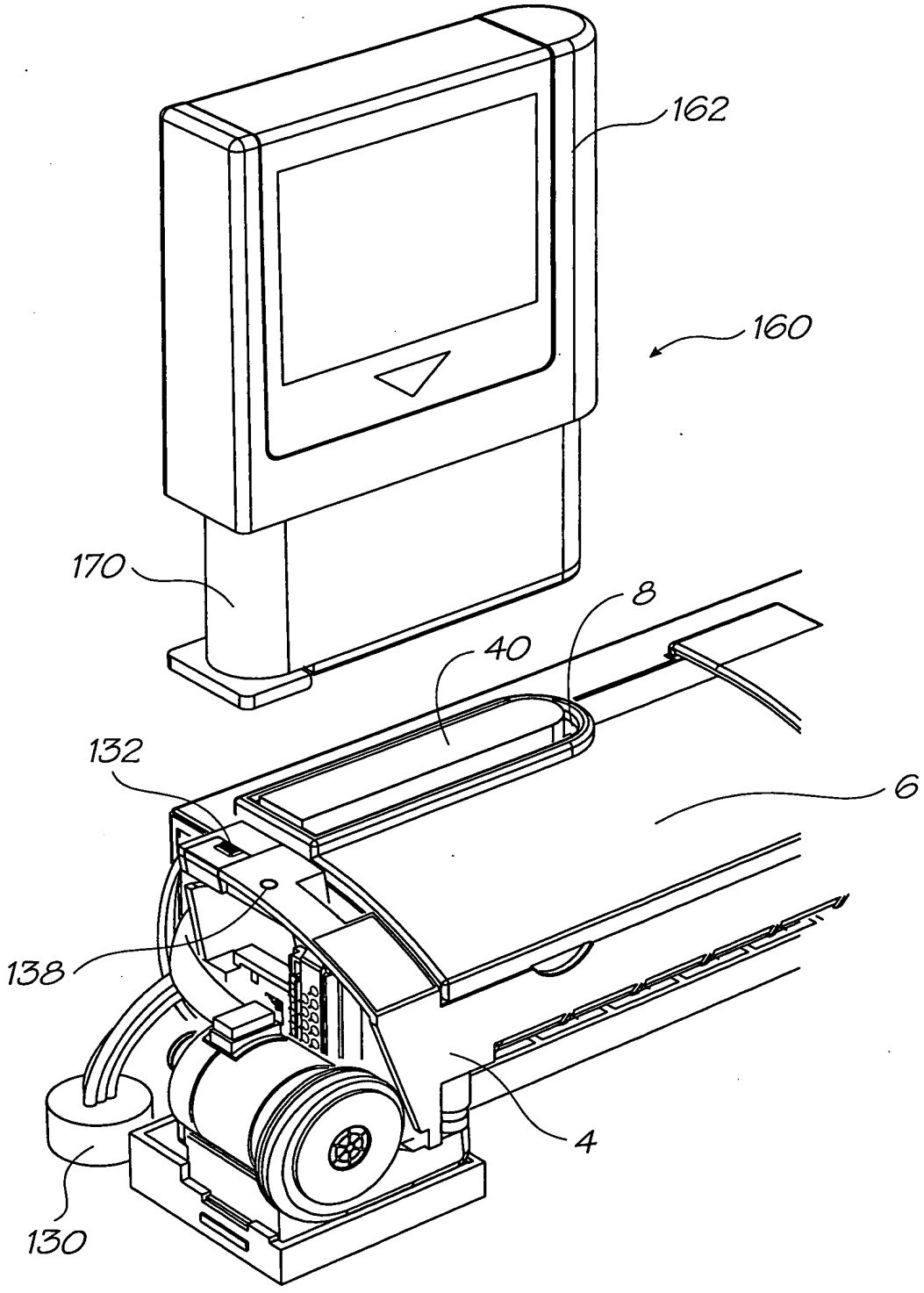



FIG. 40

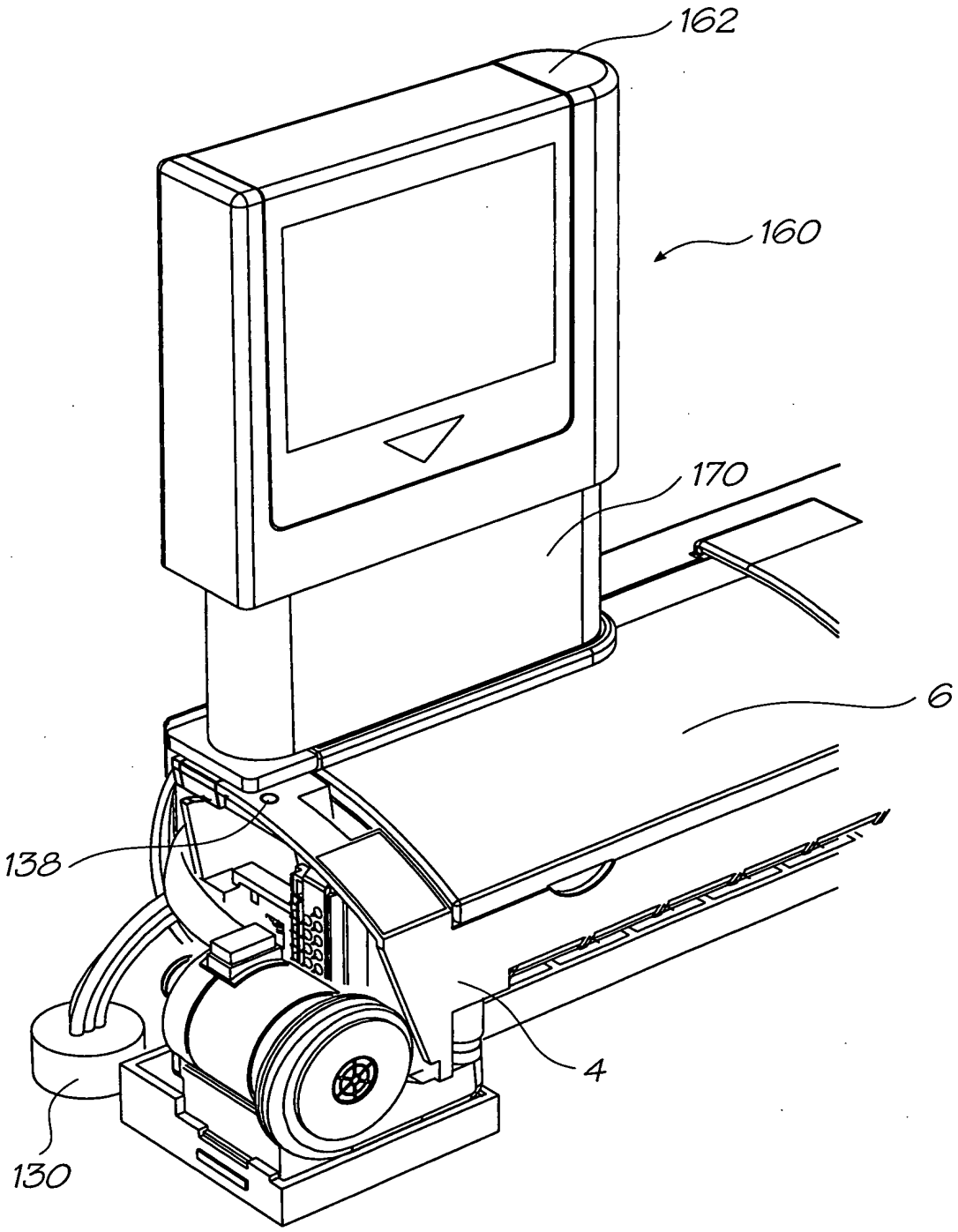



FIG. 41

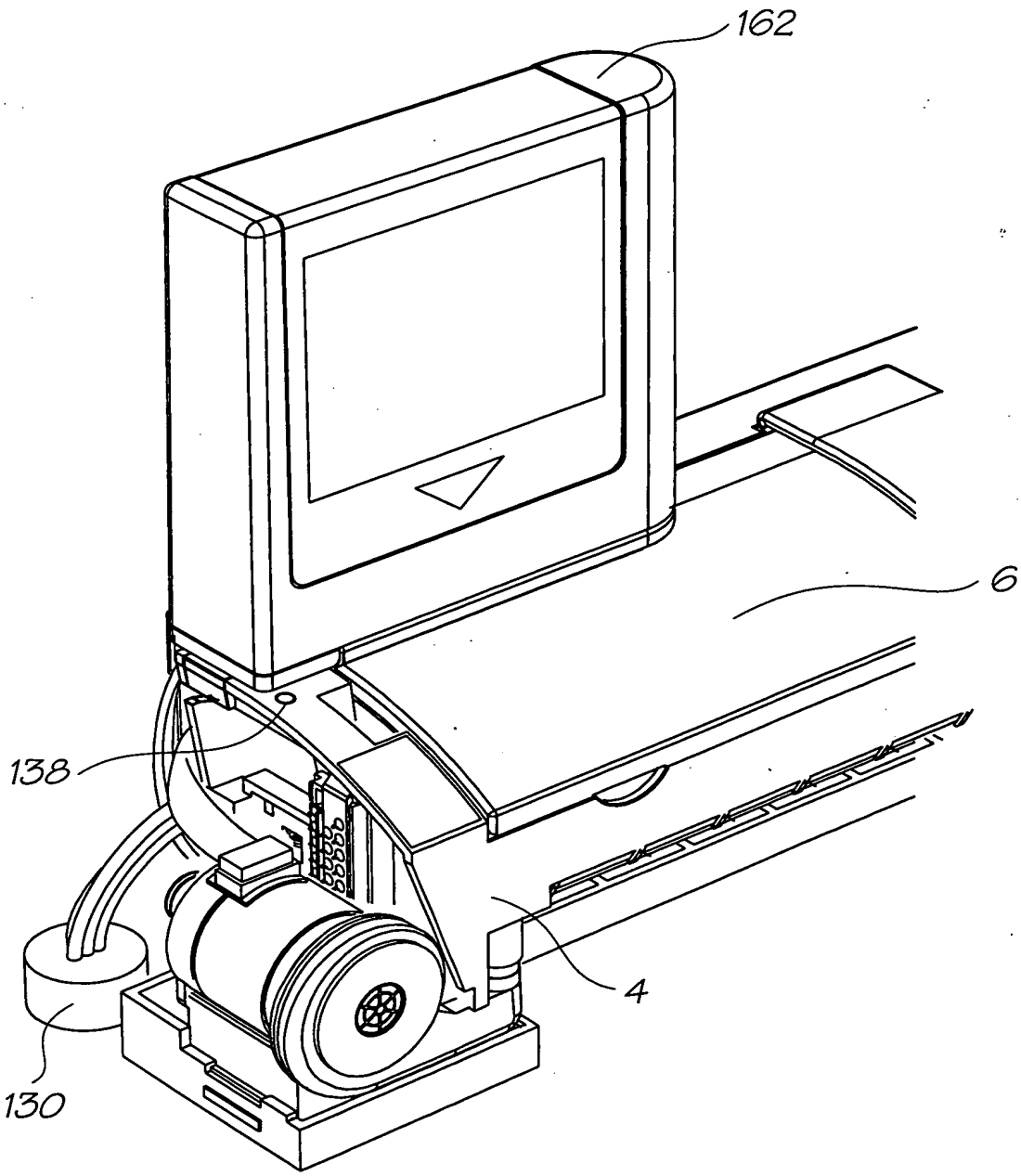



FIG. 42